

SOUTHEASTERN BIOLOGY



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ASB

ONLY CALL FOR PAPERS FOR THE 77TH MEETING

ASB

ASB

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
DAVIDSON COLLEGE, DAVIDSON, NORTH CAROLINA

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MARCH 31 - APRIL 3, 2016

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MEETING SITE: EMBASSY SUITES HOTEL
CONCORD, NORTH CAROLINA

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ABSTRACT SUBMISSION—SEE PAGE 596.



University of North Carolina at Charlotte. Woodward Hall which houses the
Department of Biological Sciences.

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PURPOSE

The purpose of this association shall be to promote the advancement of biology as a science by encouraging research, the imparting of knowledge, the application of knowledge to the solution of biological problems, and the preservation of biological resources. The ASB has representation in Section G Committee of the AAAS. Varying types of membership are available to individuals and institutions. See inside back cover.

TIME AND PLACE OF FUTURE MEETINGS

2016 March 31-April 3: Featured Institutions – Davidson College, Davidson, NC; Queens University of Charlotte; The Charlotte Teachers Institute; and The University of North Carolina at Charlotte. Meeting site is the Embassy Suites, Charlotte-Concord, NC.

THE VIEW FROM HERE

A MESSAGE FROM THE PRESIDENT

JOEY SHAW

The Association of Southeastern Biologists is in excellent shape and moving forward with great momentum. After several years of yeoman's work by our dedicated Executive Committee, we have made it through some rough times, nearly tied up the past, and we are again focusing our attention toward the future of ASB. Through the indefatigable work ethic of Drs. John Herr, Ed Lickey, and Zack Murrell, we have regained our tax-exempt status after a five-year lag. Furthermore, through your healthy attendance and participation in the last two annual conferences (Spartanburg, SC [750+ attendees] and Chattanooga, TN [950+ attendees]), we are in excellent financial shape. As some of you may know, prior to these two meetings our organization faced some very lean years, and we had no other choice but to spend down the Enrichment Fund to save our Association. I am happy to report that the Enrichment Fund has been repaid in full, and with our tax status reinstated, we can resume fundraising again. The Treasurer, Ed Lickey, and I will report on the Enrichment Fund along with other financial aspects of our Association at the Annual Business Meeting in Concord, NC.

We are looking forward to a fantastic meeting in Concord, North Carolina from March 31-April 3, 2016. The Executive Committee and our Meeting Planner, Shannon Oiphant-Gordon, have been working hard the last few months to get things in order. We already have planned four symposia, two workshops, five field trips, a Social Event at Discovery Place Museum, and an excellent plenary speaker. Please see our website (<http://www.sebiologists.org/concord-nc-2016/>) for more and detailed information regarding ASB 2016.

A historic town with many historic buildings, Concord is located to the northeast of the Charlotte metropolitan area. Our meeting will take place at the Embassy Suites, which is southeast of the intersection of I-85 and Bruton Smith Blvd. There are restaurants and shops in the immediate area. Our featured institutions are members of the Charlotte Teachers Institute (CTI), which is an innovative partnership between the University of North Carolina at Charlotte, Davidson University, Queens College, and the Charlotte-Mecklenburg schools. This model initiative, modeled after the Yale National Initiative, works to bring university faculty to Charlotte-Mecklenberg public school teachers so that these public school teachers are exposed to the newest content in their respective fields. The CTI will hold a symposium at ASB 2016 titled "Connecting university scholars and classroom teachers for innovative STEM education."

Please remember that the meeting dates are shifted this year from the typical Wednesday-Saturday to a Thursday-Sunday meeting. The meeting will commence with some opening day field trips on Thursday afternoon and a Welcome Mixer and Plenary Speaker that evening. Our Plenary Speaker is

Dr. Reed Noss, Distinguished Research Professor, Pegasus Professor, and Davis-Shine Professor of Conservation Biology at the University of Central Florida and President of the Florida Institute for Conservation Science. He will speak to us about conservation of Southeastern ecosystems. Oral and poster presentations, as well as symposia, will begin Friday morning and end Saturday evening. We are still working on the details of our Friday Night Social event and Saturday banquet, and we are trying to make them as memorable as last year's events. Our meeting will officially come to a close with more field trips on Sunday morning. Given Concord's location and beautiful spring weather, we expect to have record-breaking attendance and a great meeting.

The Association of Southeastern Biologists is an organization focused on science and science education. Please take the time to encourage your friends, students, and colleagues to attend the meeting. The strength of our organization comes from the breadth of interests and expertise we bring to this regional gathering. Encouraging participation from all sub-disciplines of the life sciences will help us maintain our strength as a vibrant regional professional association. I will look forward to seeing you in Concord.

Have a productive spring,

Joey Shaw



Incoming President of ASB Joey Shaw (left) receives the gavel from now Past President Zack Murrell.



Incoming President Joey Shaw thanks outgoing President Zack Murrell for his service as President of ASB, and Zack wishes Joey good luck.



Outgoing President and now Past President of ASB Zack Murrell bids farewell to the Friday Night Banquet audience, and expresses his pleasure in having served ASB as President.

To Better Serve You

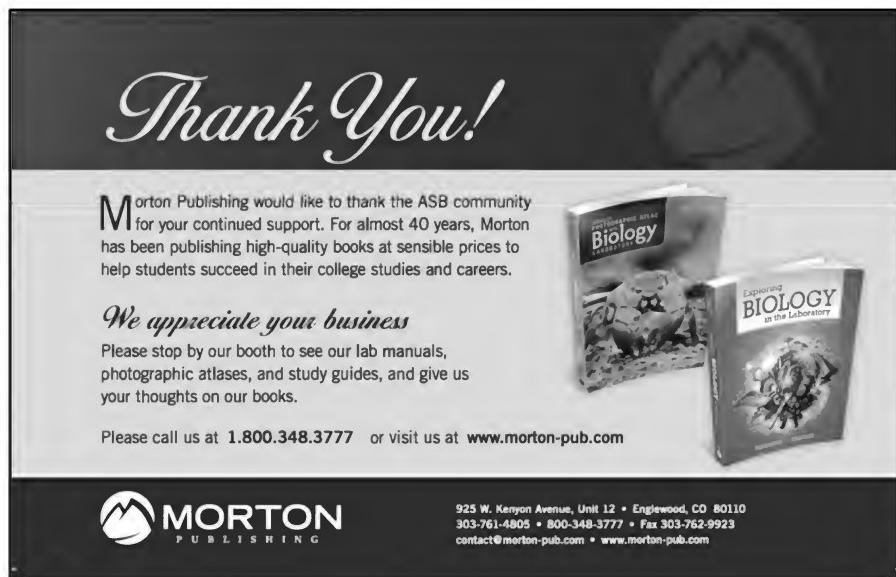
An Experiment on the Annual Meeting Time

Next year (2016), ASB will shift its traditional meeting time of Wednesday – Saturday to Thursday – Sunday. The traditional meeting time originated to provide schools with a convenient time to meet without interfering too much with classes. However, today, spring breaks occur earlier and a shift to later in the week will hopefully reduce the impact on classes for many people.

ASB will try out this new arrangement for one year, and then assess the suitability of this change with the ASB membership. If a majority favor this new schedule, ASB will make it routine each year. If not, ASB will go back to the original schedule in 2017.

Establishing a HARD Deadline for Abstracts

Beginning in the spring of 2016, there will be a hard deadline for the submission of abstracts. Late submissions put pressure on the program committee members and make it difficult to finalize the program before it has to be sent to the printers. Therefore, we will strictly enforce a firm deadline next year and there will not be any deadline extensions. Late abstracts can still be submitted, but will not appear in the formal, printed program. Instead, they will be added to a late submission file that will be available online for download.



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EVENTS OF THE 2015 ANNUAL MEETING IN CHATTANOOGA, TENNESSEE

Hosted by

THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA
AND
THE TENNESSEE AQUARIUM

ASB MERITORIOUS TEACHING AWARD

UNIVERSITY PROFESSOR HONORED

PRESENTED TO DR. WILLIAM E. ENSIGN
KENNESAW STATE UNIVERSITY, KENNESAW, GEORGIA

The 2015 Association of Southeastern Biologists Meritorious Teaching Award was presented to **Dr. William E. Ensign**, Kennesaw State University, Kennesaw, Georgia, at the 76th annual meeting of the Association in Chattanooga, Tennessee by the award committee chair, Dr. Jennifer Davis. This prestigious award is sponsored by ASB Patron Member Carolina Biological Supply Company, Burlington, North Carolina, and includes a plaque, a check for \$1500, and copies of letters supporting the awardee's nomination. The following brief biographical sketch and selected quotations from the letters were drawn from the materials supporting the nomination.

William E. (Bill) Ensign – Dr. Ensign is a professor in the Department of Biology and Physics at Kennesaw State University. He received his B.A. in Zoology from the George Washington University (1982), an M.S. in Ecology from the University of Tennessee (1988) and a Ph.D. in Fisheries Science from Virginia Tech (1995). His expertise is in aquatic ecology with a particular emphasis on fish diversity, distribution and abundance in freshwater streams and rivers. His research has included investigations of brook and rainbow trout abundance in the southern Appalachians, the impact of stream channel modifications on the federally endangered Roanoke logperch, recolonization success of stream fish following fish kills, use of underwater observation for monitoring fish populations, documentation of the distribution and abundance of fish, freshwater mussels and gastropods in a variety of flowing water systems, the use of fish community structure in bioassessment, investigations of the effects of human barriers to stream fish movement and dispersal and most recently, the life history and ecology of the humble largescale stoneroller (*Campostoma oligolepis*). He has ongoing contracts with two local water authorities to assist with bioassessments in Paulding and Cobb Counties, Georgia. As a result, he samples fishes in 12 to 20 streams each summer and has a squadron of willing and malleable undergraduates trailing behind his every-ready backpack electrofisher. Many of the students have gone beyond the role of field assistant and developed undergraduate research projects based on the summer sampling and most of

these have presented their results at ASB meetings. He also contributes to the new Masters of Science in Integrative Biology (MSIB) at KSU by teaching graduate courses and directing the efforts of graduate students. He has twice received the Kennesaw State University College of Science and Mathematics award for Excellence in Research and Creative Activity. He has been a member of ASB since 1999 and has been active in service to the Society since 2007, including service on the Student Awards Committee, co-organizer of a symposium on research at undergraduate institutions and most recently, a three-year stint as an At-large member on the Executive Committee. Dr. Ensign was awarded the 2015 ASB Meritorious Teaching Award at the April 2015 annual meeting. A sampling of comments from former and current students best describes Dr. Ensign as a biology teacher:

Selected quotations from letters of support.

Dr. Ensign, "leads by example, he is consistently professional, respectful and engaging. He engages his students by asking questions and starting discussions. He listens to whatever the student has to say and always responds in a thoughtful manner. . . he helps the student arrive at the answer themselves instead of just giving them the answer." *Ellen Winant, MSIB Graduate Student Kennesaw State University.*

"I have benefitted profoundly from his instruction and his mentoring. . . He inspired me to learn to think and act like a scientist and he helped me to cultivate the critical thinking skills that I needed to be successful in my future." Dr. Ensign's "class was not just about the process of 'doing science', but also about communicating and writing about science." *Erin Coker, former undergraduate student and currently an educator working with science teachers as a Literacy Instructional Coach.*

"Dr. Ensign guided and assisted me in a year-long field and laboratory study of a local stream fish. As a result of his guidance, the project culminated in my first publication in a peer reviewed scientific journal." *Eric South, former undergraduate student, currently second year entomology graduate student at the University of Illinois Urbana Champaign.*

"Dr. Ensign taught me the basics of quantitative field work. I recall one particular lunch break at a field site when Dr. Ensign led me in understanding the importance of having a good research question prior to initiating sampling." *Steven Ranney, former undergraduate student, currently a fisheries scientist with an MS in Fisheries Science from SDSU in Brookings, SD.*

"It was during the years that Dr. Ensign was my professor and advisor that I gained the skills and knowledge that I currently use in my position in the Stream Monitoring Program of the Cobb County Water System. For the past twelve years we have contracted with Dr. Ensign and Kennesaw State University to perform fish sampling and population analysis for Cobb County streams. Each summer Dr. Ensign brings student assistants with him so they can learn and get the real world experience in a professional setting. With Dr. Engisn's help we have the most comprehensive data on fish populations ever collected in Cobb County."

Erin Feichtner, former undergraduate student, currently involved in the Stream Monitoring Program, Environmental Compliance Division, Cobb County Water System.

Finally, Dr. Donald McGarey, Interim Chair of the Department of Biology and Physics at Kennesaw State University, writes:

"Bill has a well refined teaching philosophy that emphasizes the epistemological nature of science. His classroom emphasis is on 'how we know' rather than just 'what we know'. "

"I can say that his popularity with students is due to several key factors. First, he is dynamic in the classroom. He delivers information with a clear, understandable and interactive style. . . Second, he is highly supportive of students and will go to great lengths to help those who try, while maintaining very clear, appropriate course work expectations. . . Finally, he maintains an excellent sense of humor and enthusiasm. It becomes obvious to the observer that he enjoys what he does."

It is apparent that the 2015 Meritorious Teaching Award was well deserved and Dr. Bill Ensign is an example of the expertise and dedication to teaching that is a hallmark of ASB members.

Dr. Jennifer Davis

Chair of the ASB Meritorious Teaching Award Committee, 2014-2015.



William E. Ensign (right) receives the 2015 ASB Meritorious Teaching Award from award committee chair Jennifer Davis.



William E. Ensign (right) is congratulated by ASB President Zack Murrell.



William E. Ensign (center) expresses his appreciation on receiving the award.

ASB LUCRECIA HERR OUTSTANDING BIOLOGY TEACHER AWARD**HIGH SCHOOL TEACHER HONORED**

**RACHEL GORDON
POPE JOHN PAUL II HIGH SCHOOL
HENDERSONVILLE, TENNESSEE**

The 2015 Association of Southeastern Biologists Lucrecia Herr Outstanding Biology Teacher Award was presented to **Rachel Gordon** of Pope John Paul II High School in Hendersonville, Tennessee at the 76th annual meeting of the association in Chattanooga Tennessee by the education committee co-chair J. Christopher Havran. This very prestigious award is sponsored by the ASB Enrichment Fund, and includes a plaque and a check for \$750.00

Biographical Sketch for Rachel Gordon

Rachel Gordon holds a B.S. in Environmental Science from Lipscomb University, a Masters of Education from Peabody College at Vanderbilt University, and she recently received her M.S. in Biology from Washington University in St. Louis.

Rachel began her teaching career in 2006 at Ellis Middle School in Hendersonville, TN, where she taught courses in general science and literature. In 2008 she began teaching at Pope John Paul II High School in Hendersonville where she has instructed courses on College Preparatory Biology, AP Environmental Science, Anatomy and Physiology, and Science of Sports. Her AP Environmental Science course is designed to help students see the relevance of environmental issues in their daily lives and to help them to develop an awareness of how their lives impact the environment.

Rachel positively impacts the environment of her school outside of the classroom. She has received approximately \$4500 in internal and external grants to purchase equipment for several Biology courses. She is also responsible for overseeing student houses to plan days of service and other school events.

Rachel has regularly participated in meetings of the Tennessee State Teachers Association (TSTA) and the National Association of Biology Teachers (NABT). She has been named the 2012 TSTA Science Educator of the Year for grades 9-12. She also received the NABT's Outstanding Biology Teacher Award for the 2012-2013 school year.



Rachel Gordon (left) receives the ASB Lucrecia Herr Outstanding Biology Teacher Award from award chair Chris Havran.

2015 RESEARCH AWARD RECIPIENTS

ASB SENIOR RESEARCH AWARD

Award committee chair, Heather Dawn Wilkins, reported that the award committee for this award, sponsored by ASB, made no award this year.

ASB STUDENT RESEARCH AWARD

The ASB Student Research Award, sponsored by ASB Patron Member Martin Microscope Company, Easley, South Carolina, was presented by award committee chair John Quinn to **Stephanie S. Momeni**, Department of Biology, University of Alabama, Birmingham, Alabama, for her manuscript coauthored with Paul Patrick, Howard W. Weiner, Gary R. Cutter, John D. Ruby, Kyounga Cheon, Jennifer Whiddon, Stephen A Moser, and Noel K. Childers, entitled "Mutans Streptococci Enumeration and Genotype Selection Using Different Bacitracin-Containing Media." The manuscript has been published in the *Journal of Microbiological Methods* 103: 53-57, 2014.



Stephanie S. Momeni (left) receives the ASB Student Research Award from award committee chair John Quinn.

ASB RESEARCH AWARD IN MICROBIOLOGY

The ASB Research Award in Microbiology, sponsored by ASB, was presented by award committee chair, Chris Gissendanner, to **Blake W. Nelson**, Department of Biology, Whittenberg University, Springfield, Ohio, for his paper coauthored with Leighanne R. Main, Horton H. Hobbs III, Andre L. Lorenz, and Jay A. Yoder, entitled "Cricket Mummies in Caves and Identification of the Causative Entomopathogenic Fungus," *SE Biology Abstract 44*, 62/3, page 236.

No photograph was taken.

ASB STUDENT POSTER AWARD

The ASB Student Poster Award, sponsored by ASB, was presented by award committee chair William E. Ensign to **Anna R. Moravec**, Department of Chemistry, University of Tennessee, Chattanooga, Tennessee, for her poster coauthored with Daniel J. Shults, Steven J. Symes, Manuel F. Santiago, David K. Giles of the Department of Biological and Environmental Sciences, entitled "Membrane Remodeling Via Utilization of Exogenous Polyunsaturated Fatty Acids (Pufas) Modifies Virulence Phenotypes in *Vibrio cholerae* and *Vibrio parahaemolyticus*," *SE Biology Abstract P254*, 62/3, page 424.



Anna R. Moravec (right) receives the ASB Student Poster Award from award committee chair William E. Ensign.

THE NORTH CAROLINA BOTANICAL GARDEN AWARD

The North Carolina Botanical Garden Award, sponsored by the NCBG, Chapel Hill, North Carolina, was presented by award committee chair, Johnny Randall to **Jesse E. D. Miller**, Department of Zoology, University of Wisconsin, Madison, Wisconsin, for his paper coauthored with Ellen I. Damschen, entitled "Long-Term Landscape Change in Ozark Dolomite Glades, 1939-2012," *SE Biology Abstract 156*, 62/3, page 286.



Jesse E. D. Miller (left) receives the North Carolina Botanical Garden Award from award committee chair Johnny Randall.

EUGENE P. ODUM AWARD

The Eugene P. Odum Award, sponsored by the Southeastern Chapter of the Ecological Society of America, was presented by award committee member David Vandermast to **John A. Jones**, Department of Biology, Appalachian State University, Boone, North Carolina, for his paper coauthored with Anna C. Tisdale (ASU), Marja H. Bakermans, Department of Biology and Biotechnology, Worcester Polytechnic Institute, Massachusetts, Jeffery L. Larkin, Department of Biology, Indiana University of Pennsylvania, Indiana, Pennsylvania, Curtis G. Smalling, Audubon North Carolina, Boone, North Carolina, and Lynn Siefferman (ASU), entitled "Ecological and Behavioral Consequences of Sympatry Between Golden-Winged and Chestnut-Sided Warblers in the Southern Appalachians," *SE Biology Abstract* 30, 62/3, pages 230 and 231.

Three Honorable Mentions were also awarded by award committee member David Vandermast.

1. To **Jesse E. D. Miller**, Department of Zoology, University of Wisconsin, Madison, Wisconsin, for his paper coauthored with Ellen I. Damschen, entitled "Long-Term Landscape Change in Ozark Dolomite Glades, 1939-2012," *SE Biology Abstract* 156, 62/3, page 286.

2. To **Dennis D. Tarasi**, Curriculum for the Environment and Ecology, University of North Carolina, Chapel Hill, North Carolina for his paper entitled "Invaded Communities Differ in Composition and Structure from Uninvaded Communities," *SE Biology Abstract* 23, 62/3, pages 227 and 228.
3. To **Kaitlyn D. Peters**, Department of Biological and Environmental Sciences, Langwood University, Farmville, Virginia, for her paper coauthored with Kenneth Fortino, entitled "Terrestrial Leaf Litter Alters Nutrient and Oxygen Flux in the Sediments from a Small Man-Made Pond in Central Virginia," *SE Biology Abstract* 115, 62/3, page 268.



John A. Jones (left) receives the Eugene P. Odum Award from award committee member David Vandermast.

ELsie QUARTERMAN-CATHERINE KEEVER AWARD

The Elsie Quarterman-Catherine Keever Award, sponsored by the Southeastern Chapter of the Ecological Society of America, was presented by award committee chair David Vandermast to **Catherine J. Cole**, Department of Biology, Appalachian State University, Boone, North Carolina, for her poster coauthored with William Hutchinson and Howard D. Neufeld, entitled "An Unusual Succulent in the Appalachian Understory: Leaf Morphology and Light Capture in *Sedum ternatum*," *SE Biology Abstract* P43, 62/3, page 334.



Catherine J. Cole (left) receives the Elsie Quarterman-Catherine Keever Award from award committee chair David Vandermast.

An Honorable Mention was also awarded by award committee chair David Vandermast to **Ceil C. Martinec**, Department of Biological and Environmental Sciences, Troy University, Troy, Alabama, for her poster coauthored with Jyotsna Sharma, Department of Biology, University of Texas, San Antonio, Texas, Jonathan M. Miller, Paul M. Stewart, and Stephen C. Landers, entitled "Multivariate Analysis of Nematode Communities in Northern Gulf of Mexico Continental Shelf Sediments Following the Deepwater Horizon Oil Spill," *SE Biology* Abstract P58, 62/3, pages 340 and 341.



* Ceil C. Martinec (right) receives the Honorable Mention certificate from ASB President Joey Shaw.

BOTANICAL SOCIETY OF AMERICA SOUTHEASTERN SECTION STUDENT AWARDS

The Botanical Society of America Southeastern Section Student Award sponsored by the SE Section of the BSA presented two awards—one for best paper and one for best poster. Both awards were presented by award committee chair Emily L. Gillespie.

1. Paper Presentation – To **Jessica L. Allen**, Institute of Systematic Botany, The New York Botanical Garden, Bronx, New York, and Graduate Center, The City University of New York, New York, New York, for her paper entitled “High Elevation Endemics and Climate Change: The Future of Rare Lichens in the Southern Appalachians,” *SE Biology Abstract* 83, 62/3, page 253.
2. Poster Presentation – To **Catherine J. Cole**, Department of Biology, Appalachian State University, Boone, North Carolina, for her poster coauthored with William Hutchinson and Howard S. Neufeld, entitled “An Unusual Succulent in the Appalachian Understory: Leaf Morphology and Light Capture in *Sedum ternatum*,” *SE Biology Abstract* P43, 62/3, page 334.



Jessica L. Allen (right) receives the BSA Southeastern Section Student Award for best paper presentation from award committee chair Emily L. Gillespie.



Catherine J. Cole (left) receives the BSA Southeastern Section Student Award for best poster presentation from award committee chair Emily L. Gillespie.

THE UNIVERSITY OF SOUTH CAROLINA HERBARIUM AWARD

No award was made this year.

ASB GRADUATE STUDENT TRAVEL AWARDS

The following seventeen graduate students received travel awards from ASB to attend the annual meeting in Chattanooga, Tennessee. Selections were made by the ASB Graduate Student Support Awards Committee members Jennifer Borgo (Chair), Claudia Jolls, and Beverly Collins. These awards are sponsored by the ASB Silent Auction.

Alexandria N. Albers – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Lynn Siefferman.

Jessica Lea Allement – Department of Biology, University of South Alabama, Mobile, Alabama. Advisor, Dr. Jack O'Brien.

Regis Burkhardt – Department of Biology, University of South Alabama, Mobile, Alabama. Advisor, Dr. Ylenia Chiari.

Catherine J. Cole – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Howard S. Neufeld.

Scott T. Cory – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Howard S. Neufeld.

Jared A. Elmore – Department of Biology, University of South Alabama, Mobile, Alabama. Advisor, Dr. Ylenia Chiari.

Kesley J. Gibson – Department of Biological and Environmental Sciences, Troy University, Troy, Alabama. Advisor, Dr. Paul Stewart.

John A. Jones – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Lynn Siefferman.

Opal Rayne Leonard – Department of Biology, Middle Tennessee State University, Murfreesboro, Tennessee. Advisor, Dr. Ashley B. Morris.

Eric L. Margenau – Department of Biological and Environmental Sciences, Alabama A&M University, Normal, Alabama. Advisor, Dr. Yong Wang.

Jesse E. D. Miller – Department of Zoology, University of Wisconsin, Madison, Wisconsin. Advisor, Dr. Ellen Damschen.

Stephanie S. Momeni – Department of Biology, University of Alabama, Birmingham, Alabama. Advisor, Dr. Noel Childers.

David Nielsen – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Howard S. Neufeld.

Adam J. Ramsey – Department of Biological Sciences, University of Memphis, Memphis, Tennessee. Advisor, Dr. Jennifer Mandel.

Sarah A. Smiley – Department of Evolution, Ecology, and Organismal Biology, Ohio State University, Columbus, Ohio. Advisor, Dr. Terence Farrell.

Kevin Trostel – Department of Biology, Middle Tennessee State University, Murfreesboro, Tennessee. Advisor Dr. Ashley B. Morris.

Lauren K. Wood – Department of Biology, Appalachian State University, Boone, North Carolina. Advisor, Dr. Howard S. Neufeld.

The ASB Graduate Student Travel Awardees



From left to right: Kevin Trostel, Rayne Leonard, John Jones, Alexandria Albers, Eric Margenau, Jessica Allement, Regis Burkhardt, Scott Cory, Kesley Gibson, Jared Elmore, Lauren Wood, Stephanie Momeni, David Nielsen, Sarah Smiley, Catherine Cole, and Adam Ramsey. Not pictured: Jesse Miller.

SOUTHERN APPALACHIAN BOTANICAL SOCIETY AWARDS

Presented at the Annual SABS breakfast meeting on April 3, 2015.

Student Presentation Awards

The Student Presentation Awards were established to reward outstanding undergraduate or graduate student botanical presentations at the annual Association of Southeastern Biologists meeting. For 2015, awards were

presented for the best student poster presentation and for best oral presentation. The award includes an honorarium of \$500.

Oral Presentation – **Scott T. Cory** (Appalachian State University) – Ecophysiological Responses of Fraser Fir (*Abies fraseri*) Christmas Trees along an Elevational Gradient. *SE Biology Abstract* 124, 62/3, pages 272 and 273 (Coauthored with Howard S. Neufeld and Lauren K. Wood).

Poster Presentation – **Catherine J. Cole** (Appalachian State University) – An Unusual Succulent in the Appalachian Understory: Leaf Morphology and Light Capture in *Sedum ternatum*. *SE Biology Abstract* P43, 62/3, page 334 (coauthored with William Hutchinson and Howard S. Neufeld).



Scott T. Cory (left) receives the award for best student oral presentation from Kathy Mathews, President of SABS.



Catherine J. Cole (left) receives the award for best student poster presentation from Kathy Mathews, President of SABS.

Earl Core Student Research Award

Dr. Earl Core was a major force in the founding of the Southern Appalachian Botanical Club in 1936. The annual Core Student Award was established by the society to provide financial assistance in support of student research projects in plant taxonomy, systematics, and ecology. This year two proposals were funded, each for \$500.

Jenna Dorey (The New York Botanical Garden) for her proposal "Systematics and biogeography of *Carex* section *Laxiflorae* (Cyperaceae): reconstructing the evolutionary history of an unusual disjunction in a clade of temperate sedges." Her advisor is Dr. Robert Naczi.

Jerald Pinson (University of Florida) for his proposal "Comparative transcriptomics of independent, sporophyteless gametophytes of the Appalachian Mountains." His advisor is Dr. Emily Sessa.

No photograph taken.

Richard and Minnie Windler Award

The Richard and Minnie Windler Award was established in 1990 at the annual meeting of the SABS by Dr. Donald R. Windler of Towson University as a memorial to his parents. Two awards are now presented annually; first to the author or authors of the best systematic botany paper and second for the best ecology or floristic paper, both published in *Castanea* during the previous year. Each award comes with a check for \$500.

The 2015 Richard and Minnie Windler Award winners for the best systematics botany paper published in *Castanea* during 2014 were

Systematics – Katherine E. Culatta and Jonathan L. Horton

"Physiological response of southern Appalachian high-elevation rock outcrop herbs to reduced cloud immersion". The article was published in the September 2014 issue of *Castanea* 79(3): 182-194.

Ecology – Sabrina Y. S. Sewell and Wendy B. Zomlefer

"Floristics of piedmont Gabbro Upland depression forests in Jasper County, Georgia." The article was published in the September 2014 issue of *Castanea* 79(3): 195-220.



Jonathan L. Horton (left) receives the Richard and Minnie Windler Award for best paper published in Systematics in *Castanea* for himself and for coauthor Katherine E. Culatta from Kathy Mathews, President of SABS.



Sabrina Y. S. Sewell (center) and Wendy B. Zomlefer (left) receive the Richard and Minnie Windler Award for best paper published in Ecology in *Castanea* from Kathy Mathews, President of SABS.

Elizabeth Ann Bartholomew Award

The society annually presents the award in memory of Elizabeth Ann Bartholomew's untiring service to the public, to plant systematics, and to the organization. The award is presented to individuals who have also distinguished themselves in professional and public service that advances our knowledge and appreciation of the world of plants and their scientific, cultural, and aesthetic values, or exceptional service to the society.

Dr. Patricia Cox received the award. Pat has been dedicated to a wide variety of education and botanical activities including University of Tennessee Botany Program, Tennessee Rare Plant Council, The Great Smoky Mountains Wildflower Pilgrimage, Discover Life in America, and Tennessee Valley Authority. She has served in many leadership roles in both SABS and ASB. A detailed presentation of her accomplishments can be found in the September 2015 issue of *Castanea*.



Patricia B. Cox (center) receives the Elizabeth Ann Bartholomew Award from President of SABS. Kathy Mathews (left) and from Charlie Williams, chair of the Elizabeth Ann Bartholomew Award Committee.



Patricia B. Cox (center) is congratulated by two of "the ASB sisters," Eloise Carter (left) and Patricia Parr.

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BETA BETA BETA NATIONAL BIOLOGICAL HONOR SOCIETY**SOUTHEASTERN REGION****OUTSTANDING PAPER AND POSTER AWARDS FOR 2015**

At the 58th Tri-Beta Annual Meeting held with the 76th ASB Annual Meeting, Lee Sutton, Southeastern Region District I Director, and Christi Magrath, Southeastern Region II Director, presented the following awards.

**Southeastern District I Paper Session
Frank G. Brooks Paper Award Winners
Rooms 9-10**

Stephanie Giangiuli, Beta Omega, Mercer University, Macon, Georgia. "The Comparison of *merA* Isolated from Mercury Resistant Bacteria Isolated from Artisanal Gold Mining Sites in Mozambique and Ecuador," SE Biology Abstract 62/3, page 456. **Kimberly Smith** was 2nd place winner, **April Smith** was 3rd place winner, and **Paul Frye** received Honorable Mention.



Beta Beta Beta Southeastern District I Brooks Award recipients (Section 1): (First) (not pictured); Kimberly Smith, Virginia Military Institute (Second); April Smith, Georgia Regents University (Third); Paul Frye, Catawba College (Honorable Mention).

**Southeastern District I Paper Session
Frank G. Brooks Paper Award Winners
Rooms 16 and 17**

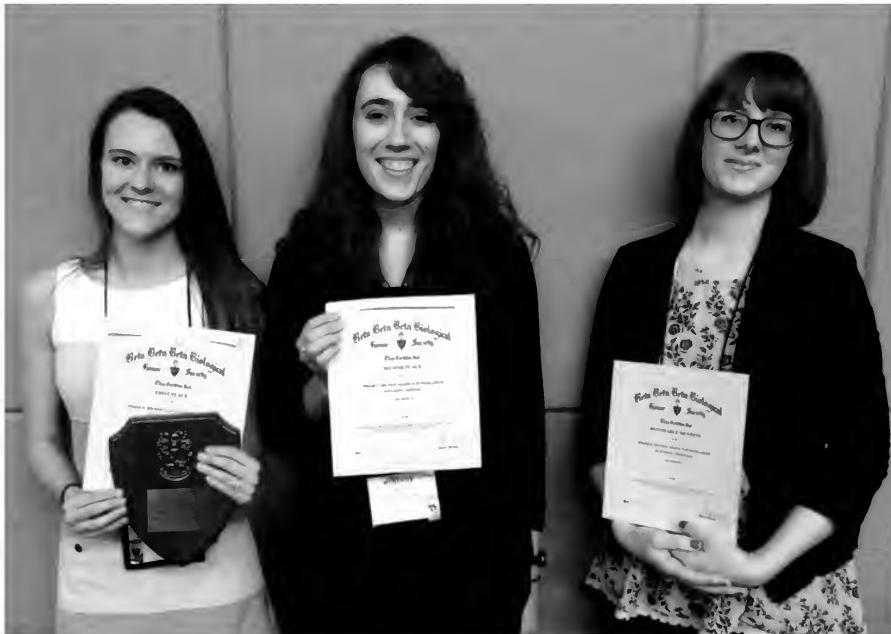
Marc Muraski, Sigma Phi, Guilford College, Greensboro, North Carolina. "Pseudomonas aeruginosa Biofilm Disruption Via Yayurea A&B Quorum Quenching," SE Biology Abstract 62/3, page 462. **Louis Penrod** was 2nd place winner, **Robin White** was 3rd place winner, and **Annette Narzynski** received Honorable Mention.



Beta Beta Beta Southeastern District I Brooks Award recipients (Section 2): Marc Muraski, Guilford College (First); Louis Penrod, Florida Institute of Technology (Second); Robin White, University of North Georgia (Third); Annette Narzynski, Florida Institute of Technology (Honorable Mention).

**Southeastern District II Paper Session
Frank G. Brooks Paper Award Winners
Rooms 18 and 19**

Alexus Rice (Stefania, Guglielmi; Miriam, Steinitz-Kannan; Stuart, Oehrle), Mu Iota, Northern Kentucky University, Highland Heights, Kentucky. "Removal of Microcystins Via Bio-Activated Sand Filtration Systems," SE Biology Abstract 62/3, page 465. **Brittany Jones** was 2nd place winner, and **Rebecca Moody** received Honorable Mention.



Beta Beta Beta Southeastern District II Brooks Award recipients: Alexus Rice, Northern Kentucky University (First); Brittany Jones, Northern Kentucky University (Second); not pictured (Third); Rebecca Moody, Columbus State (Honorable Mention)

**Southeastern District I Poster Session
John C. Johnson Poster Award Winners
Exhibit Hall C**

Beverly Petilli, Sigma Psi, Florida Institute of Technology, Melbourne, Florida. "Formation of Compound Plates in the Skeleton of the Sea Urchin *Tripneustes gratilla*," SE Biology Abstract 62/3, page 474. **Courtney Shadik** was 2nd place winner; **Kaitlyn Hanley** was 3rd place winner; and **Aminda Everett, Kalem Burns, Kolt Owenby, and Nancy Eufemia Dalman** received Honorable Mention.



Beta Beta Beta Southeastern District I Johnson Award recipients: Beverly Petilli, Florida Institute of Technology (First); Courtney Shadik, Florida Institute of Technology (Second); Kaitlyn Hanley, Georgia Southern University (Third); Kolt Owenby, Ami Everett, Kalem Burns, University of North Georgia (Honorable Mention)

Southeastern District II Poster Session
John C. Johnson Poster Award Winners
Exhibit Hall C

Jeremy Duke, K. Ichikawa, J. Pittman, M. W. Morris, and S. Liu, Mu Epsilon, Troy University, Troy, Alabama. "Assessments of Extracts Prepared from Native St. John's Wort Species (*Hypericum spp.*) on Anxiety/Depression-Related Behaviors and Neural Pathways in Zebrafish (*Danio rerio*)," SE Biology Sbstract 62/3, page 485. **Alyxandria N. Cox** was 2nd place winner; **Fhallon Ware-Gilmore** was 3rd place winner; and **Hailey M. Boeck, Anna K. Hinson, and Isaac M. Sleadd** received Honorable Mention.



Beta Beta Beta Southeastern District II Johnson Award recipients: Jeremy Duke, Troy University (First); Alexandra Cox, Northern Kentucky University (Second); Fhallon Ware-Gilmore, University of West Alabama (Third); Hailey Boeck, Anna Hinson, University of North Alabama (Honorable Mention)

ASB Executive Committee Members at the Annual Meeting in Chattanooga, Tennessee.



From left to right: Zack Murrell, Heather Dawn Wilkins, Jennifer Davis, Christopher Havran, Emily Gillespie, Margaret Kovach, Conley McMullen, James Caponetti, Joey Shaw, Sarah Noble, Edgar Lickey, Judy Awong-Taylor, Riccardo Fiorillo, Ashley Morris, and Christopher Fleming.

ASB Executive Committee Meeting
Wednesday, April 1, 2015



From left to right: Zack Murrell, Sarah Noble, and James Caponetti.



John Herr



Edgar Lickey

ASB Executive Committee Meeting
Wednesday, April 1, 2015



From left to right: Donald Roush, Ashley Morris, and Emily Gillespie.



From left to right: Riccardo Fiorillo, Christopher Fleming, and William Ensign.

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THE ASB PLENARY SESSION WEDNESDAY, APRIL 1, 2015

The Plenary Session was held in rooms I and J of the Chattanooga Convention Center. The session was opened by ASB President Dr. Zack Murrell at 7:30 p.m. EDST. The audience was welcomed by Dr. Jerald Ainsworth, Provost of the University of Tennessee at Chattanooga. Dr. Murrell then introduced the plenary speaker Dr. Kenneth C. Catania, Stevenson Professor of Biological Sciences, Department of Biological Sciences, Vanderbilt University, Nashville, Tennessee. The title of his talk was "Stars, Whiskers, and Brains: The Neurobiology and Behavior of Some Specialized Southeastern Predators."



Dr. Zack Murrell



Dr. Jerald Ainsworth



Dr. Kenneth C. Catania



**WEDNESDAY EVENING PLENARY
WELCOMING RECEPTION**



**WEDNESDAY EVENING PLENARY
WELCOMING RECEPTION**



**WEDNESDAY EVENING PLENARY
WELCOMING RECEPTION**

Emily Gillespie (left) and Michael woods.



Johnny Randall (right) and his son Lewis who is a senior biology major at the University of North Carolina at Greensboro.



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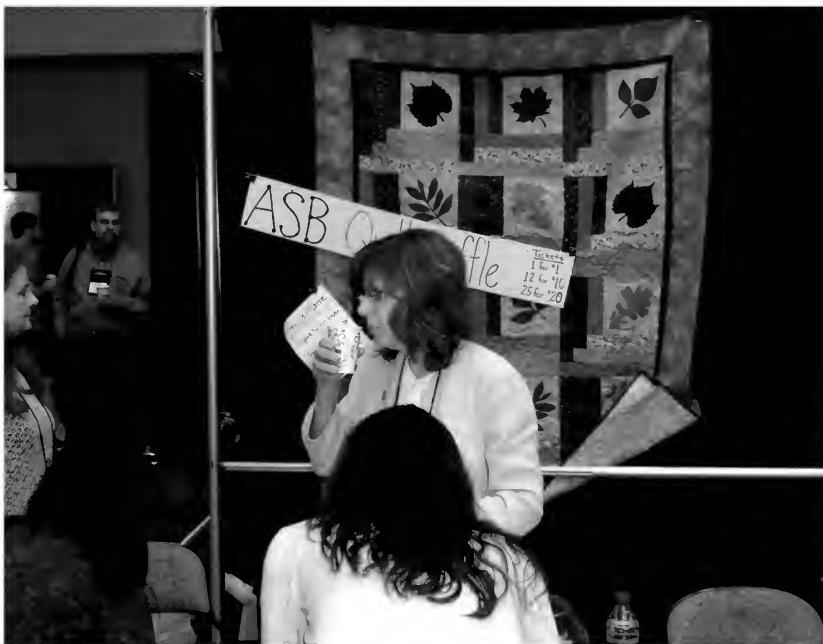
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EXHIBITORS AT THE ANNUAL MEETING

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Tim Thompson (left) owner with Donald Roush.



Association of Southeastern Biologists
From left to right: Donald Roush – Past President, Edgar Lickey – Treasurer, and
Ashley Morris – Web Editor.

EXHIBITORS AT THE ANNUAL MEETING

Association of Southeastern Biologists Quilt Raffle
Patricia Parr, Co-organizer



Eloise Carter (right) Raffle Co-organizer with Antoinette Frederick.

EXHIBITORS AT THE ANNUAL MEETING

Lisa Rudd – Raffle Co-organizer



ASB Quilt Raffle drawing at the Friday Night Awards Banquet:
From left to right: Lisa Rudd, Patricia Parr, and Kim Marie Tolson. President Zack
Murrell (far right) looks on with approval. The quilt was won by Amy Klass,
Abraham Baldwin Agricultural College, Tipton, GA.

EXHIBITORS AT THE ANNUAL MEETING

Beta Beta Beta Biological Honor Society

Lee Sutton (left) Southeastern District I Director; Christi Magrath (center) Southeastern District II Director; and Mrs. Donald Roush, wife of National President Donald Roush.



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Robert Martin, Jr. (center) owner

EXHIBITORS AT THE ANNUAL MEETING

Southern Appalachian Botanical Society
Charles Horn (left) Treasurer; Michael Held (center) Membership Secretary;
Katherine Mathews (right) President.



Joe Winstead (left) and Michael Held

EXHIBITORS AT THE ANNUAL MEETING

University of Tennessee Press



From left to right: Joey Shaw, Dwayne Estes, and Eugene Wofford.

EXHIBITORS AT THE ANNUAL MEETING

National Association of Biology Teachers



United States Forest Service

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**THURSDAY SOCIETY OF HERBARIUM CURATORS
SOUTHEASTERN CHAPTER LUNCHEON AND BUSINESS MEETING**



Ashley Morris presiding



**THURSDAY SOCIETY OF HERBARIUM CURATORS
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From left to right: Diane Nelson, Patricia Parr, Kim Marie Tolson, Patricia Cox, and Eloise Carter



Selecting and bidding

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ORGANIZED AND CONDUCTED BY “THE ASB SISTERS”**



Selecting and bidding



Selecting and bidding

THURSDAY ASB BUSINESS MEETING



Presided by President Zack Murrell (left) and President-Elect Joey Shaw.



THURSDAY ASB BUSINESS MEETING

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Cross-section through middle pieces of developing spermatid's microtubule growth cone (adult male rat).
Patrick Nalirney, Ph.D., Univ. Victoria Div. of Medical Sciences - 2014 TEM Image Contest Winner

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Rat enterophagia Eptilon 15, Wah Chiu, Ph.D., Baylor College of Medicine (top image)
Rabbit Retinal Connectome volume, Robert Marc, Ph.D., Marc Lab, Moran Eye Center, Univ. of Utah (middle image)
Neuron, 20 nm, tomography, Greg Ning, Ph.D., Penn State University College of Agricultural Sciences (bottom image)

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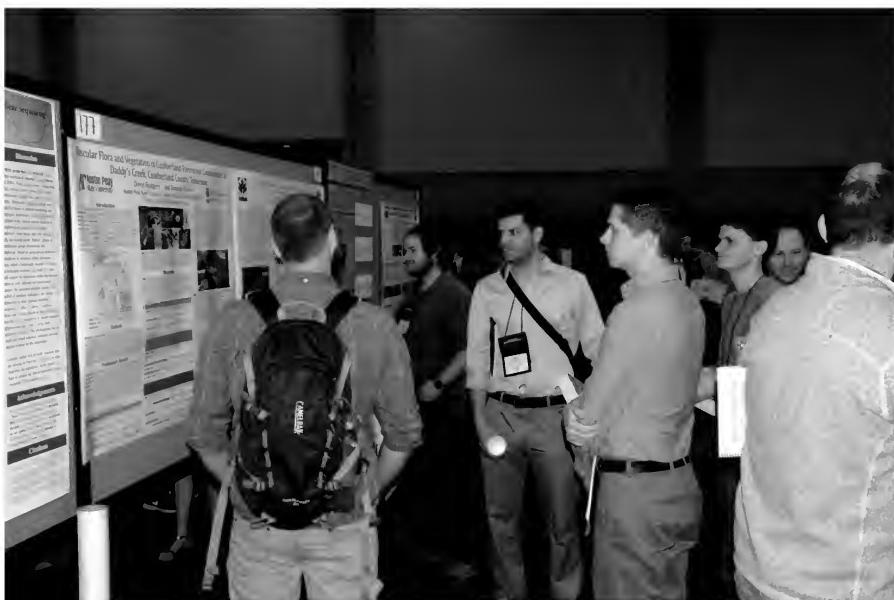
The Band

**ASB THURSDAY NIGHT AFTER-DINNER SOCIAL AT
THE TENNESSEE AQUARIUM**

Viewing Exhibits

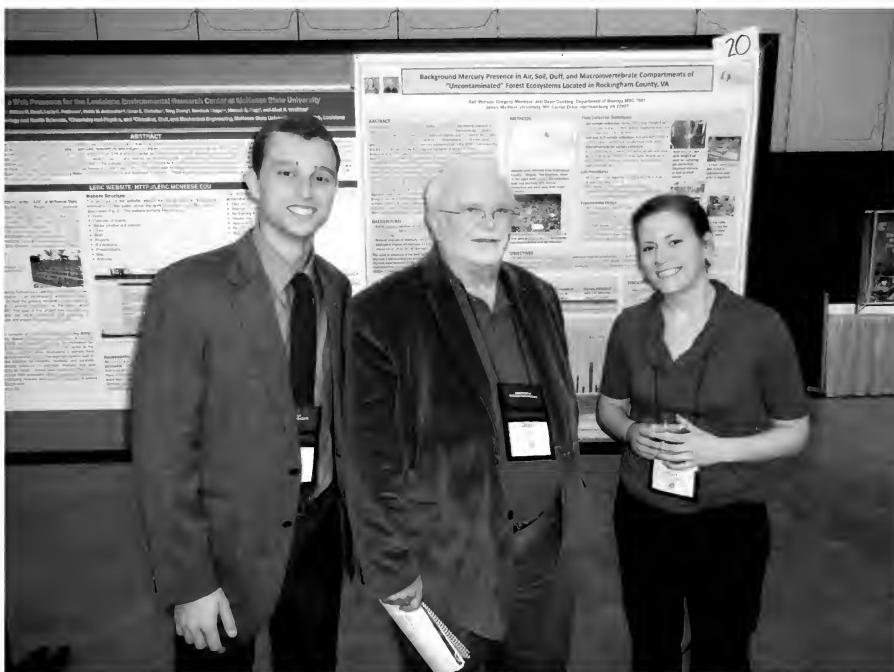


Viewing Exhibits

THURSDAY AND FRIDAY ASB POSTER SESSIONS

Devin M. Rodgers – P177

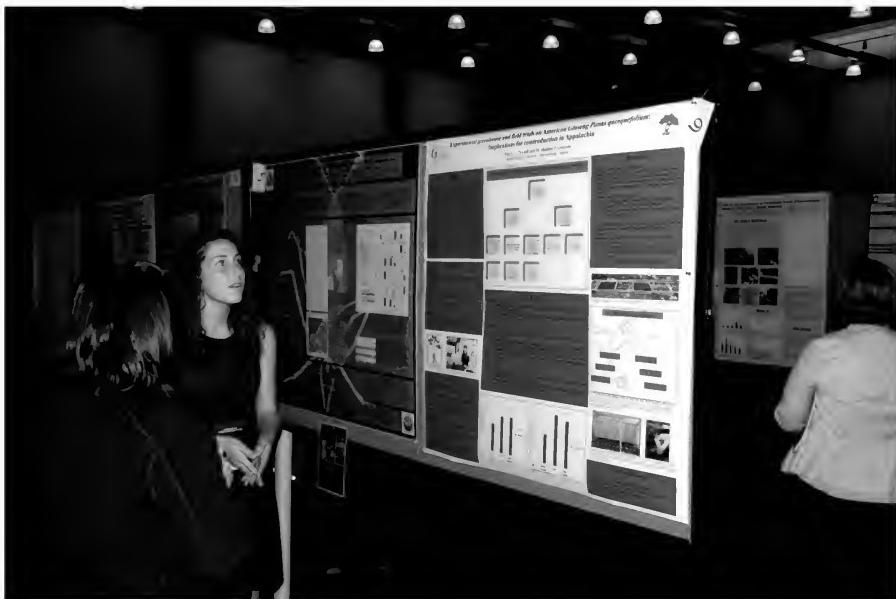
THURSDAY AND FRIDAY ASB POSTER SESSIONS



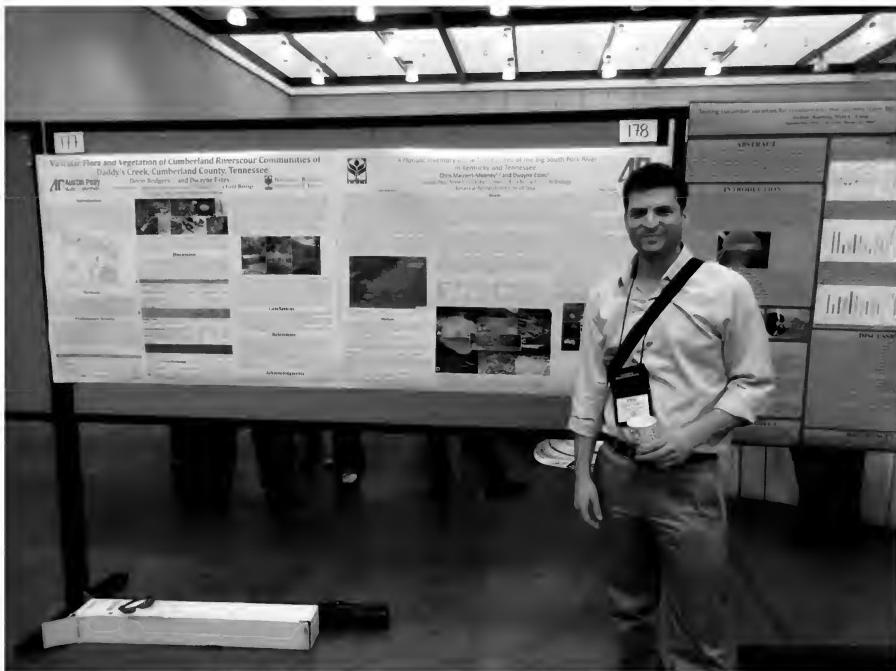
From left to right: Gregory E. Mansour, Dean Cocking, and Gail M. Moruza – P20



THURSDAY AND FRIDAY ASB POSTER SESSIONS

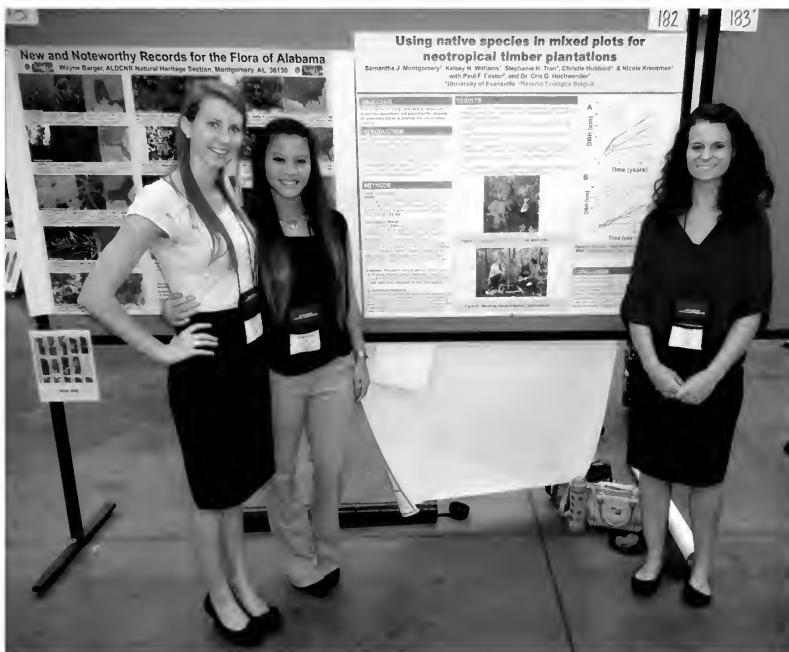
THURSDAY AND FRIDAY ASB POSTER SESSIONS

Emily C. Thyroff – P6

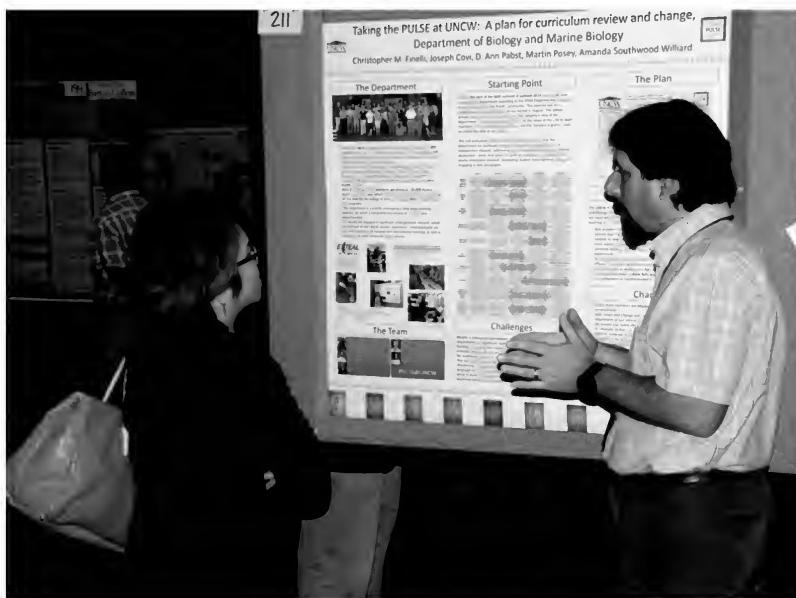


Christopher Mausert-Mooney – P178

THURSDAY AND FRIDAY ASB POSTER SESSIONS



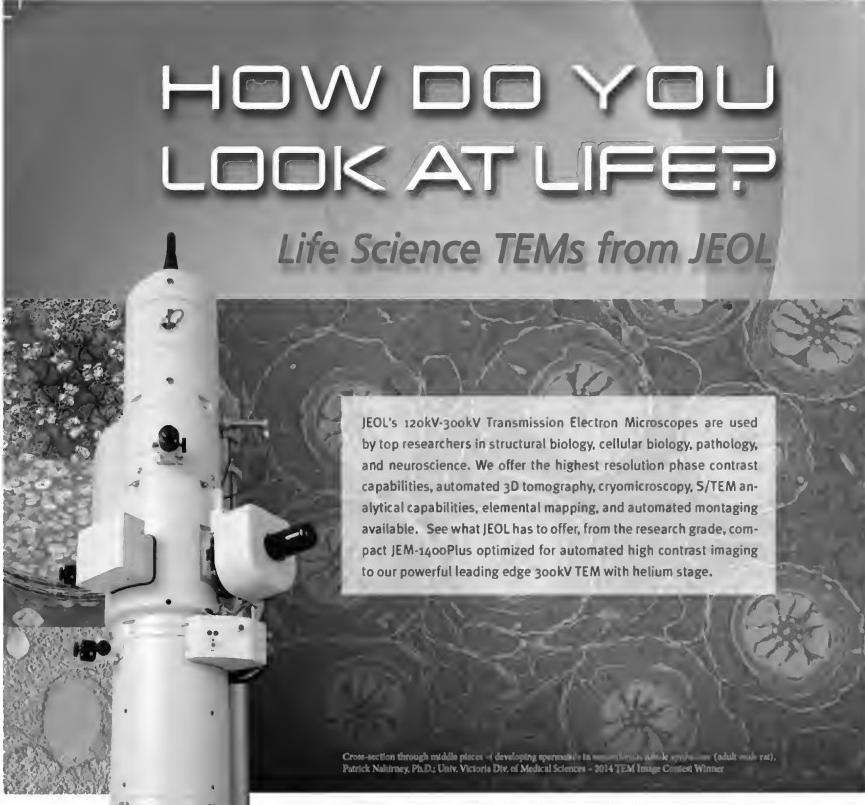
From left to right: Samantha J. Montgomery, Stephanie H. Tran, and Kelsey N. Williams – P182.



Christopher M. Finelli – P211

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Cross-section through middle pieces of developing spermatids in mouse testis at late prophase (adult male rat).
Patrick Nalunay, Ph.D., Univ. Victoria Div. of Medical Sciences - 2014 TEM Image Contest Winner

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Rat enterophagia Epon 15, Wah Chiu, Ph.D., Baylor College of Medicine (top image)
Rabbit Retinal Connectome volume, Robert Marc, Ph.D., Marc Lab, Moran Eye Center, Univ. of Utah (middle image)
Neuron, 20 nm, tomography, Greg Ning, Ph.D., Penn State University College of Agricultural Sciences (bottom image)

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FRIDAY SABS/BSA BREAKFAST

SABS OFFICERS PRESENT REPORTS



President
Dr. Kathrine Mathews



Treasurer and President-Elect
Dr. Charles Horn



Membership Secretary
Dr. Michael Held



Chair, Bartholomew Award
Committee, Dr. Charles Williams

FRIDAY SABS/BSA BREAKFAST

From left to right: Emily Gillespie, Ashley Morris, Edgar Lickey, and Mac Alford



From left to right: Eloise Carter, Patricia Parr, Patricia Cox, John Herr, Lucrecia Herr, Andrew Ash, Jonathan Horton, and Howard Neufeld

FRIDAY SABS/BSA BREAKFAST

Thomas Wentworth (left) and Dean Cocking



From left to right: Alexis Nystrom, Zack Ford, and Barrett Bradham

FRIDAY SABS/BSA BREAKFAST

From left to right: Brian Keener, Joseph Winstead, and Lytton Musselman



Stephanie Jeffries (left) and Charles Williams

FRIDAY SABS/BSA BOTANY STUDENTS RECEPTION

From left to right: Kevin Burgess, Li-Jun Yan, Scott Silvis, Samantha Worthy, Wendy Zomlefer, and Richard Carter



From left to right: Cameron Byrd, Rebecca Cook, Peter W. Schafran, and John Andrew Arnold

FRIDAY SABS/BSA BOTANY STUDENTS RECEPTION

Lytton Musselman (left) and Joseph :Pollard



Charles Horn (left) and Sabrina Sewell

FRIDAY SABS/BSA BOTANY STUDENTS RECEPTION

From left to right: Thomas Wentworth, Lisa Rudd, and Kunsiri Chaw Grubbs
(Pum)



From left to right: Conley McMullen, Thomas Wentworth, and Lisa Rudd

FRIDAY EVENING PRESIDENT'S AFTER BANQUET SOCIAL

From left to right: Emily Gillespie, John Herr, Patricia Parr, and Sara Noble



Lucrecia Herr (left) and James Caponetti

FRIDAY EVENING PRESIDENT'S AFTER BANQUET SOCIAL

Lafayette Frederick (left) and Joseph Winstead



From left to right: Joseph Winstead, Edgar Lickey, and Charles Horn

2015 ANNUAL MEETING PHOTOGRAPHY

The pictures that you have seen and enjoyed for the various activities at the annual meeting were taken by Dr. Conley K. McMullen and we thank him very much. The consequence is that he hardly ever appears in the pictures. To alleviate this situation, the Journal Editor here presents a compilation of "action shots" of Dr. McMullen taken by our Treasurer Dr. Edgar Lickey.



At the ASB Table



At the ASB Table



At the Plenary Session



At the SABS Breakfast



At the SHC Lunch



At the Awards Banquet

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Association of Southeastern Biologists**Education Committee Report 2015****Kirk Stowe, Committee Chair**

This year's meeting was intended as a workshop/discussion meeting to develop ideas for the future direction of the ASB Education Committee. Drs. Erika Scocco and Kirk Stowe will serve as co-chairs of the committee. We had sizable group with approximately 45 individuals participating and 4 individuals requesting to be added to the committee. The participants had a number of insightful suggestions, which are as follows in no particular order:

- 1) A proposal that the Lucrecia Herr Outstanding Biology Teacher of the Year Award be extended to cover some expenses of meeting attendance for two years such that there would be overlap of attendance and promote continuity of the award;
- 2) Workshops that would provide Continued Education Credits and how to go about this were discussed in order to get more secondary teacher involvement in the ASB Annual Meetings;
- 3) A symposium concerning Cognitive Psychological issues in education was proposed;
- 4) Partnership with NABT was discussed with the NABT attendees;
- 5) Possible pairing with vendors for a workshop including something tangible that secondary teachers could take home was discussed. It was suggested that this workshop be held on a Saturday to increase attendance for those who are not on Spring Break;
- 6) To increase secondary teacher and student participation several ideas were discussed
 - a. Special pricing for secondary school participants
 - b. Single day costs
 - c. Secondary school participant presentation or poster session
 - d. Scholarships for secondary school participants
 - e. Provide a field trip specifically geared towards secondary school participants;
- 7) A partnership between ASB scientists and high school teachers. The scientist can self-select areas of specialization within Biology, which that individual would provide content to help high school teachers. This would be volunteer-based only, with a list of scientists either on the ASB website and/or on a listserv;
- 8) Skype with a scientist. Primary or secondary educators could Skype with a scientist from 30 to 50 minutes on a certain topic. This would be on a voluntary basis, and as such, their contact information will be on the ASB website and/or on a listserv.

All of these ideas will be pursued over the next year by tackling the easiest directive to institute first.

Other committee members: Christopher Havran, Holly L. Boettger-Tong, Stephen C. Richter, John Aliff, and Erika Scocco.

SABS Sponsored Botany of Extreme Habitats Symposium at ASB 2015

**Kathy Mathews
Department of Biology, Western Carolina University
19 August 2015**

The Southern Appalachian Botanical Society sponsored a symposium entitled "Botany of Extreme Habitats," on Thursday morning, April 2, in Chattanooga, for the 2015 ASB meetings. Seven invited speakers presented original research or reviews of recent work related to this topic, for which the uniting theme was "extreme." The fields covered were diverse – floristics, ecology, and ecophysiology – as were the habitats. By looking at a range of habitat types and research approaches, the symposium revealed common themes that transcended specialized disciplinary boundaries. Even the term "extreme" was used in different ways by the symposium speakers, from habitats having edaphic or microclimatic conditions atypical for the general conditions of the region (Weakley), to habitats characterized by conditions in which few species can survive.

However, a theme introduced by the kick-off speaker, Alan Weakley (UNC-Chapel Hill), was that extreme habitats help maintain plant diversity in the Southeastern U.S. Weakley explained that this region has such a rich and diverse native flora, including many rare and endemic species, precisely because of these many small patch "azonal" communities. Such habitats serve as "incubators of speciation." He also argued that these communities give the Southeast greater ecological resilience over time by serving as refugia during long periods of environmental change. Examples of such communities are glades, fens, hillside seepage bogs, rock outcrops, barrens, river scours, high elevation peaks, sandy scrub, and dunes.

Speaker Jonathan Horton (UNC-Asheville) addressed high-elevation rock outcrop communities, and how their plants are adapted to using cloud immersion to ameliorate water stress in this shallow-soil environment. In another talk, Theo Witsell (AR Natural Heritage Commission) discussed rare saline barrens habitats found in Arkansas, Louisiana and Texas as refuges of rare plants. In both cases, issues of conservation of these habitats come into play because of the high numbers of endemic and rare plants they support. Presumably, these plants thrive on the lack of competition from widespread species in these extreme habitats. In a similar fashion, as described by speaker Joe Pollard (Furman University), certain plant species survive on soils with elevated levels of heavy metals, such as nickel, cobalt, and chromium, at the expense of less tolerant species and even accumulate the metals in their tissues.

Whereas extremity gives rise to diversity in many extreme habitats, in others, only one or a few species can survive and form near monocultures from which other species are excluded. One such habitat is the coastal salt marsh, which, speaker James Morris (USC) explained, are highly productive yet extremely toxic monocultures of smooth cordgrass (*Spartina alterniflora*). In this case, it is the plant itself that creates and maintains an ecophysiological feedback system that

excludes other plants. Sandhills canebrakes are another near-monoculture community dominated by a grass, switchcane (*Arundinaria tecta*), as described by Bruce Sorrie (UNC-Chapel Hill). In this case, the habitat is maintained by frequent fires and is necessarily managed by humans in most areas so as not to succeed to tree-shrub communities. Switchcane growth is induced by very hot fires, attesting the extremity of this community.

Sorrie's talk reinforced the theme of extreme habitats serving as refuges for plant species diversity in the southeast. Without fire, there would be no switchcane, without salt marsh, no smooth cordgrass, without saline barrens, no *Hymenoxys perpygmaea*, *Geocarpus minimum* or *Anthaenantia texana*. *Packera serpenticola* accumulates nickel in the serpentine soils of Buck Creek, NC, where it is endemic. High-elevation rock outcrop specialists, such as *ydatica etiolaris* and *Solidago simulans* would be lacking without their special rock outcrop habitat, and climate change may threaten the cloud immersion moisture on which they survive. By the end of the symposium, listeners may have come to the conclusion that "extreme" is equivalent to what we associate with botanical diversity in the Southeastern U.S. Though facing the prospect of environmental changes, these plant communities may also be characterized by resilience to extinction and should continue to make this region a hotspot of botanical and biological diversity into the future.



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RESOLUTION OF APPRECIATION TO

**UNIVERSITY OF TENNESSEE, CHATTANOOGA
THE TENNESSEE AQUARIUM STAFF
THE CHATTANOOGA MERRIOTT HOTEL STAFF
THE CHATTANOOGA CONVENTION CENTER STAFF
AND THE ORGANIZERS OF THE 76TH ANNUAL MEETING OF
THE ASSOCIATION OF SOUTHEASTERN BIOLOGISTS**

WHEREAS, The University of Tennessee at Chattanooga and the Tennessee Aquarium did agree to make local arrangements for the Association of Southeastern Biologists to hold its 76th Annual Meeting on 01 April through 04 April, 2015, in Chattanooga; Tennessee; and

WHEREAS, The Dean and the administration of the University of Tennessee at Chattanooga provided institutional approval and monetary support; and

WHEREAS, Local Arrangement Chair Joey Shaw assisted by Peggy Kovach of the University of Tennessee at Chattanooga and the members of the Annual Meeting Arrangement Committee did an outstanding job of organizing and arranging the events; and

WHEREAS, Howie Neufeld from Appalachian State University, Chris Brown and Rickey Fiorillo from Georgia Gwinnett College for assembling the program and abstracts; Mark Suggs of Appalachian State University assisting with program formatting; Chris Fleming of BDY Environmental for the creation of the program applications available for Smartphones and I-phones; Chris Fleming of BDY Environmental for his work with data base management and Oven: program; Chris Fleming of BDY Environmental and Ashley Morris of Middle Tennessee State University for their work on the ASB web and social media pages; the ASB sisters, Pat Cox, Kim Tolson, Patricia Parr, Eloise Carter and Bonnie Kelley for their organization of the silent auction; Christi Magrath of Troy University and Lee Sutton of East Carolina University for coordinating the Beta Beta Beta activities; Andy Ashe, Patricia Parr and Ashley Morris for handling the commercial exhibits and affiliate booths in the exhibit hall; Bernie Kuhajda of Tennessee Aquarium Conservation Institute, David Withers of Tennessee Division of Natural Areas, Stephanie Chance of U.S. Fish and Wildlife Service, Austin Prater and Hill Craddock of University of Tennessee at Chattanooga, Jon Evans and Kevin Hiers of Sewanee, Rick Huffines of Tennessee River Gorge Trust, John Diener and Lizzie Goodrick for leading the field trips; Judy Awong-Taylor and Peggy Kovach for organizing the volunteers; Brad Cooper and Nik Hay for assisting the President; Appalachian State University Convention and Camps Center for on-line and on-site registration; and all members of the ASB Executive Committee for all their efforts to make this meeting a success; and

WHEREAS, the affiliate societies, TriBeta Southeastern District I, TriBeta Southeastern District II, Southeastern Section of the Botanical Society of America, Southeastern Chapter of the Ecological Society of America, Southeast Chapter of the Society of Herbarium Curators, Southern Appalachian Botanical Society, were in attendance and contributed to paper and poster sessions, workshops, and symposia, PULSE members and our patron members, Associated Microscopes, BDY Environmental, Breedlove, Dennis and Associates, Carolina Biological Supply Company, Martin Microscope Southeastern Naturalists & Eagle Hill Foundation and David Wise; and

WHEREAS, the citizenry of Chattanooga, Tennessee cooperated to welcome the Association of Southeastern Biologists to the City of Huntsville, Alabama; and

WHEREAS, the students of University of Tennessee at Chattanooga volunteered to assist with the production of the 76th Annual Meeting; therefore, be it

RESOLVED, that the members of the Executive Committee of the Association of Southeastern Biologists give their sincere thanks and appreciation to all involved in making this an excellent and memorable Annual Meeting that resulted from the cumulative efforts of these individuals and organizations.

THE TREASURER'S REPORT

Edgar Lickey

Fall Executive Committee Meeting, 12-13 September 2015

ASB is still in great financial shape with total assets of \$64,938 divided between two accounts. This is including having paid all bills and invoices to date. This does NOT include the estimated \$182,573 that we will receive from Appalachian State Conferences and Camps.

Merchant Accounts

Since regaining our tax exempt status, we successfully obtained a merchant account which will now allow us to directly accept credit card payments without having to go through PayPal interface. The merchant account software will interface with Cvent and as soon as the conversion is complete, we can close the PayPal account that was opened in a private name. This person risked financial liability when we could not obtain the merchant account due to our non-exempt status.

Taxes

After successfully getting our 501 (c)(3) status retroactively reinstated, we were assessed a \$10,000 penalty for late filing of form 990 for 2010. This penalty was appealed and the IRS removed this penalty 17 August.

Enrichment Fund

No further news on the Enrichment Fund at this time. As stated in my last report, Tim declared that at the end of 2013, \$42,195 was marked as Enrichment Fund money. For right now, I am designating the savings account as Enrichment Fund and keeping it separate from the "general fund" checking account.

| Calendar year | 2014 | 2015 |
|------------------------|------------------|-------------|
| Beginning 1 January | \$79,484 | \$163,280 |
| Ending 31 December | \$163,280 | |
| Change | +\$83,796 | |

CURRENT BALANCE (as of 10 June 2015)

| | |
|----------------------|-----------------|
| Wells Fargo Checking | \$26,661 |
| PayPal | \$2,465 |
| Wells Fargo Savings | \$35,812 |
| Total | \$65,059 |

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ASB Southeastern Biology Staff, ASB Officers, and Executive Committee Members-at-Large, 2015-2016

Telephone numbers, fax numbers and e-mail addresses can be found on the inside front cover of each issue of the *Southeastern Biology*.

Southeastern Biology Staff

| | |
|-------------------------------|---|
| Journal Editor | James D. Caponetti, Division of Biology, University of Tennessee, Knoxville, TN |
| Associate Editor | Sarah Noble, P. O. Box 640, Mobile, AL36601 |
| Web Editor | Ashley B. Morris, Department of Biology, Middle Tennessee State University, Murfreesboro, TN |
| Web Administrator | Chris Fleming, BDY, Environmental LLC, Nashville, TN |
| Book Review Co-Editors | Christopher G. Brown, School of Science & Technology Georgia Gwinnett College, 1000 University Center Lane, Lawrenceville, GA; ♦Jennifer Mandel, Dept. of Biological Sciences, University of Memphis, Memphis, TN 38152 |

ASB Officers

| | |
|----------------------------|--|
| President | Joey Shaw, Department of Biological and Environmental Sciences, University of Tennessee, Chattanooga, TN |
| President-Elect | Position currently vacant |
| Vice President | Judy Awong-Taylor, School of Science and Technology, Georgia Gwinnett College, Lawrenceville, GA |
| Past President | Zack Murrell, Department of Biology, Appalachian State University, Boone, NC |
| Secretary | Sarah Noble, P. O. Box 640, Mobile, AL36601 |
| Treasurer | Edgar B. Lickey, Department of Biology, Bridgewater College, Bridgewater, VA |
| Associate Treasurer | Tracy L. Deem, Department of Biology, Bridgewater College, Bridgewater, VA |
| Membership Officer | Sarah Noble, P. O. Box 640, Mobile, AL36601 |
| Archivist | J. Kenneth Shull, Jr., Department of Biology, Appalachian State University, Boone, NC |
| Associate Archivist | Jennifer Davis, Department of Biology and Physics, Kennesaw State University, Kennesaw, GA |

Executive Committee Members-at-Large

- 2016: J. Christopher Havran, Department of Biological Sciences, Campbell University, Buies Creek, NC. ♦Conley K. McMullen, Department of Biology, James Madison University, Harrisonburg, VA.
- 2017: Riccardo Fiorillo, School of Science and Technology, Georgia Gwinnett College, Lawrenceville, GA. ♦Margaret J. Kovach, Department of Biological and Environmental Sciences, University of Tennessee, Chattanooga, TN.
- 2018: Emily L. Gillespie, Department of Biological Sciences, Marshall University, Huntington, WV. ♦Heather Dawn Wilkins, Department of Biological Sciences, University of Tennessee, Martin, TN. ☰

ASB COMMITTEES 2015-2016

Representatives to Other Societies

AAAS – American Association for the Advancement of Science

Representative: **Edgar Lickey**, Department of Biology, Bridgewater College, Bridgewater, VA 22812; 540-828-5426; elickey@bridgewater.edu.

AIBS – American Institute of Biological Sciences

Representative: **Stephanie Songer**, Department of Biology, North Georgia College and State University, Dahlonega, GA 30597; 706-864-1959; or 706-429-5379; Fax 706-867-2703; srsonger@ngcsu.edu.

NSCA – Natural Science Collections Alliance

Representative: **Alexander Krings**, Department of Plant Biology, NC State University, Box 7612, Raleigh, NC 27695-7612; 919-515-2700; Fax 919-515-3436; alexander_krings@ncsu.edu.

BBB – Beta Beta Beta Biological Society

Southeastern District I Representative: **Lee Sutton**, Department of Biology, East Carolina University, Greenville, NC 27858; 252-328-5745; Fax 252-328-4178; suttonle@ecu.edu.

Southeastern District II Representative: **Christi Magrath**, Department of Biological and Environmental Science, Troy University, Troy, AL 36082; 334-670-3622; Fax 334-670-3626; cmagrath@troy.edu.

ASB Committees

Committee on Human Diversity – The Committee on Human Diversity shall promote career opportunities in the biological sciences for women, minorities, and individuals with disabilities and implement programs to eliminate **barriers** that restrict the access of underrepresented groups to biological careers. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Peggy Kovach – EC liaison (margaret-kovach@utc.edu)
University of Tennessee at Chattanooga
- Valarie Burnett – Co-chair (valarie.burnett@newberry.edu)
Newberry College, Newberry, SC
- Jay Bolin – Co-chair (jfbolin@catawba.edu)
Catawba College, Salisbury, NC
- Alfredo Leon – (member 2015-2018) (aleon6@mdc.edu)
Miami Dade College, North Campus, Miami, FL
- Loretta Adoghe (ladoghe@yahoo.com)
Miami Dade College, North Campus, Miami, FL

Conservation Committee – The Conservation Committee shall accumulate facts about environmental issues; shall, where it deems appropriate, disseminate such information to the membership; and shall bring resolutions addressing issues of significance to the Executive Committee for presentation to the membership through the Resolutions Committee. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Emily Gillespie – Chair (gillespie@marshall.edu)
Marshall University, Huntington, WV
- Kunsiri Chaw Grubbs (grubbsk@winthrop.edu)
Winthrop University, Rock Hill, SC
- Mike Gangloff (gangloffmm@appstate.edu)
Appalachian State University, Boone, NC

Education Committee – The Education Committee shall explore ways and means by which the Association might contribute to improved biological education at all levels. Where feasible, the committee shall organize symposia and workshops for the Annual Meeting designed to acquaint the membership with new pedagogy and critical issues in biological education. The committee shall consist of six members appointed for terms of 3 years, with two members appointed annually and serving as Co-Chairs in the third year.

- Chris Havran – EC liaison (havran@campbell.edu)
Campbell University, Buies Creek, NC
- Erika Scocco – Chair (e.scocco@wingate.edu)
Wingate University, Wingate, NC
- Kirk Stowe – Co-Chair (kstowe@beaconcollege.edu)
Beacon College, Leesburg, FL
- Holly L. Boettger-Tong (hboettger-tong@wesleyancollege.edu)
Wesleyan College, Macon, GA
- Stephen C. Richter (stephen.richter@eku.edu)
Eastern Kentucky University, Richmond, KY
- John Aliff (jaliff@gpc.edu)
Georgia Perimeter College, Decatur, GA

Finance Committee – The Finance Committee shall review the finances of the Association, prepare budget projections for future years, and recommend actions regarding dues structure and other financial matters to the Executive Committee. The committee shall consist of the ASB Treasurer (Chair), Past President, President-Elect (or VP), and a member of the Executive Committee.

- Ed Lickey – Chair and ASB Treasurer (elickey@bridgewater.edu)
Bridgewater College, Bridgewater, VA
- Tracy Deem – Chair (tdeem@bridgewater.edu)
Bridgewater College, Bridgewater, VA
- Zack Murrell (murrellze@appstate.edu)
Appalachian State University, Boone, NC
- Judy Awong-Taylor (jawongta@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA
- Chris Havran – EC liaison (havran@campbell.edu)
Campbell University, Buies Creek, NC

Graduate Student Support Award Committee – The Graduate Student Support Award Committee shall make monetary awards to assist graduate students to attend the Annual Meetings of ASB. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Claudia Jolls – Chair (jollsc@ecu.edu)
East Carolina University, Greenville, NC
- Beverly Collins (collinsb@email.wcu.edu)
Western Carolina University, Cullowhee, NC
- Matt Estep (estepmc@appstate.edu)
Appalachian State University, Boone, NC

John Herr Lifetime Achievement Award Committee – This prestigious award recognizes unusually significant contributions by its members to the life of the Association and to Biology in the Southeastern US.

- Joe Winstead (winsteadjoe@yahoo.com)
Former President, ASB
- Tom Wentworth (tom_wentworth@ncsu.edu)
Former President, ASB
North Carolina State University, Raleigh, NC
- Pat Cox (pcox@utk.edu)
Former President, ASB
University of Tennessee, Knoxville, TN

Annual Meeting Arrangements Committee – The Annual Meeting Arrangement Committee shall assist the Meetings Coordinator in meeting audiovisual needs, arranging field trips, and managing the silent auction. The committee shall consist of the Meetings Coordinator as permanent chair, two members from the host institution, and three members appointed by the President for terms of 3 years, with one member appointed or reappointed annually.

2016 Meeting – Concord, NC:

- Joey Shaw – Co-Chair (joey-shaw@utc.edu)
University of Tennessee at Chattanooga, Chattanooga, TN
- Zack Murrell – Co-Chair (murrelze@appstate.edu)
Appalachian State University, Boone, NC
- Judy Awong-Taylor (jawongta@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA
- Conley McMullen (mcmullenck@jmu.edu)
James Madison University, Harrisonburg, VA
- Chris Havran (havran@campbell.edu)
Campbell University, Buies Creek, NC

2017 Meeting – TBD:

- Joey Shaw – Chair (joey-shaw@utc.edu)
University of Tennessee at Chattanooga, Chattanooga, TN
- Judy Awong-Taylor (jawongta@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA
- Peggy Kovach (margaret-kovach@utc.edu)
University of Tennessee at Chattanooga, Chattanooga, TN

- Ricky Fiorillo (rforill@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA

2018 Meeting – TBD:

- Joey Shaw (joeyshaw@utc.edu)
University of Tennessee at Chattanooga, Chattanooga, TN
- Emily Gillespie (gillespiee@marshall.edu)
Marshall University, Huntington, WV
- Dawn Wilkins (hwilkins@utm.edu)
University of Tennessee at Martin, Martin, TN

Meritorious Teaching Award Committee – The Meritorious Teaching Award Committee may each year select for the award a member of the Association who has taught biology for at least ten years in any college or university represented in the Association and has been a member of the Association for at least ten years. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Kim Marie Tolson – Chair (tolson@ulm.edu)
University of Louisiana at Monroe, Monroe, LA
- Jennell Talley (jtalley@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA
- Bill Ensign (bensign@kennesaw.edu)
Kennesaw State University, Kennesaw, GA

Nominating Committee – The Nominating Committee shall, with due consideration of suggestions received from the membership, prepare a multiple slate of nominees for each office to be filled. The committee shall consist of three members, one of whom is a recent past president who shall serve as the Chair.

- Zack Murrell – Chair (murrellze@appstate.edu)
Appalachian State University, Boone, NC
- Patricia Parr (pdptn@aol.com)
ORNL, Oak Ridge, TN (retired)
- Ray Williams (williamsrs@appstate.edu)
Appalachian State University, Boone, NC

Past President's Council – The Past Presidents' Council, composed of the Past Presidents attending the Annual Meeting with the current Past President serving as Chair, shall review and discuss major issues under consideration by the Executive Committee and, where appropriate, shall share its consensus view with the Executive Committee on the resolution of these issues.

- Zack Murrell – Chair (murrellze@appstate.edu)
Appalachian State University, Boone, NC

ASB Poster and Presentation Awards Committee – The Poster Awards Committee may each year select a recipient of the Association Poster Award for the meritorious presentation of original research by members at the Annual Meeting. The committee shall consist of six members appointed for terms of 3 years, with a member appointed annually and serving as Co-Chairs in the third year. One poster award and one presentation award will be given out for each of the following categories: Cell and Molecular Biology, Aquatic Biology, Animal Biology, and Microbiology.

- Sharryse Henderson – Co-Chair (shenders@highlands.edu)
Georgia Highlands College, Cartersville, GA
- Rob Hopkins – Co-Chair (rhopkins@rio.edu)
University Rio Grande, Rio Grande, OH
- David K. Giles (david-giles@utc.edu)
University of Tennessee-Chattanooga, Chattanooga, TN
- Mark Schorr (mark-schorr@utc.edu)
University of Tennessee-Chattanooga, Chattanooga, TN

ASB and Affiliate Awards Coordinating Committee – This committee shall coordinate the reporting of all final judging decisions across awards offered by the Association and its Affiliates at the annual meeting.

- Bill Ensign – Chair (bensign@kennesaw.edu)
Association of Southeastern Biologists
Kennesaw State University, Kennesaw, GA
- Johnny Randall (jrandall@email.unc.edu)
North Carolina Botanic Garden
- Kathy Mathews (kmathews@email.wcu.edu)
Southern Appalachian Botanical Society
Western Carolina University, Cullowhee, NC
- David Vandermaст (dvandermast@elon.edu)
Southeastern Section of the Ecological Society of America
Elon University, Elon, NC
- Emily Gillespie (gillespiee@marshall.edu)
Southeastern Section of the Botanical Society of America
Marshall University, Huntington, WV

Publications Committee – The Publications Committee shall provide oversight of the Association's publications, consider requests for special publication activities, and recommend any alteration of publication policy to the Executive Committee for approval and subsequent approval by the membership. The committee shall consist of three of the Members-at-Large of the Executive Committee and the Editor (ex officio).

- Conley McMullen (mcmullck@jmu.edu)
James Madison University, Harrisonburg, VA
- Riccardo Fiorillo (rfiorill@ggc.edu)
Georgia Gwinnet College, Lawrenceville, GA
- Chris Havran (havran@campbell.edu)
Campbell University, Buies Creek, NC
- Jim Caponetti – Ex-Officio, Print Editor (jcaponet@utk.edu)
University of Tennessee, Knoxville, TN
- Ashley B. Morris – Ex-Officio, Web Editor (ashley.morris@mtsu.edu)
Middle Tennessee State University, Murfreesboro, TN

Resolutions Committee – The Resolutions Committee shall formulate and, with approval of the Executive Committee, present to the membership such resolutions as may be considered worthy of action by the Association. The committee shall be served by the Past President as Chair and two additional members with terms of 1 year.

- Zack Murrell – Chair (murrellze@appstate.edu)
Appalachian State University, Boone, NC
- Kim Marie Tolson (tolson@ulm.edu)
University of Louisiana at Monroe, Monroe, LA
- Bonnie Kelley (bonnie.kelley@uncp.edu)
University of North Carolina at Pembroke, Pembroke, NC

Senior Research Award Committee – The Senior Research Awards Committee may each year select a recipient of the Association Senior Research Prize for the meritorious presentation of original research by a member (student members excluded) at the Annual Meeting. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Michael Dorcas – Chair (midorcas@davidson.edu)
Davidson College, Davidson, NC
- Matt Heard (heardm@winthrop.edu)
Winthrop University, Rock Hill, SC
- Jennifer Mandel (jmandel@memphis.edu)
University of Memphis, Memphis, TN
- Dawn Wilkins (EC Liason) (hwilkins@utm.edu)
University of Tennessee Martin, Martin, TN

Student Research Award Committee – The Student Research Awards Committee may each year select the recipients of the Association Student Research Prizes for the meritorious presentation of original research by a student member at the Annual Meeting. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

- Shawn Krosnick – Chair (skrosnick@tnTech.edu)
Tennessee Tech University, Crossville, TN
- Chris Gissendanner (gissendanner@ulm.edu)
University of Louisiana-Monroe, Monroe, LA
- John Quinn (john.quinn@furman.edu)
Furman University, Greenville, SC

Ad hoc Program Committee – The ad hoc Program Committee shall collate the abstracts and develop the Program for the current year's meeting. The committee shall consist of the three (3) members appointed for terms of three (3) years, with one a member appointed annually unless the committee decides to stay together.

- Howie Neufeld – Co-chair (neufeldhs@appstate.edu)
Appalachian State University, Boone, NC
- Riccardo Fiorillo – Co-chair (rfiorill@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA
- Christopher Brown (cbrown37@ggc.edu)
Georgia Gwinnett College, Lawrenceville, GA

Ad hoc Exhibitors Committee – To develop pricing and advertising strategy to attract exhibitors and potential employers to the exhibit hall.

- Ashley Morris (ashley.morris@mtsu.edu)
Middle Tennessee State University – Chair
- Chris Fleming (cfleming@bdy-inc.com)
BDY and Associates

Ad hoc Field Trip Committee – This committee is responsible for developing and scheduling field trips for the annual meeting, which includes identifying leaders and organizing food and transportation.

- Sunny Fleming – Chair (sunny.fleming@tn.gov)
Tennessee Division of Environment and Conservation, Nashville, TN
- Dwayne Estes (destes@brit.org)
Austin Peay State University, Clarksville, TN
Botanical Research Institute of Texas, Fort Worth, TX

Ad hoc Governance Documents Management – Aid to the Archives Office in penning changes to the constitution and / or bylaws.

- John Herr (herrjr@mailbox.sc.edu)
University of South Carolina, Columbia, SC

2016 Meeting of the Association of Southeastern Biologists**CALL FOR PAPERS****THE 77th ANNUAL MEETING OF
THE ASSOCIATION OF SOUTHEASTERN BIOLOGISTS****Featured Institutions:**

Davidson College
Queens University of Charlotte
The Charlotte Teachers Initiative
The University of North Carolina at Charlotte

Location: Embassy Suites, Concord, NC

Dates: March 31st – April 3rd, 2016

Note: This meeting will start on a Thursday and run through Sunday. The Plenary will be Thursday evening, oral and poster presentations on Friday and Saturday, the Social on Friday, Banquet on Saturday, and field trips on Sunday.

**ABSTRACTS WILL BE ACCEPTED FROM
WEDNESDAY, 16 DECEMBER 2015 UNTIL
SUNDAY, 7 FEBRUARY 2016**

Please note that the abstract deadline is **FIRM**. Abstracts submitted after the cutoff date will not make it into the official printed program. We have been lenient with this deadline in the past, but we need this firm deadline to make sure we have enough time to create the program and get it printed by the time of the meeting. Thanks for understanding.

Abstract Submission Details

Submit abstracts online via the link on the ASB website (<http://www.sebiologists.org/>).

Student presenters MUST have their abstracts approved by their advisors PRIOR to submitting. There will be a box to check on the submission form for students to acknowledge that they have permission from their advisor to submit.

Student presenters should also include their advisors as co-authors on their presentations unless circumstances dictate otherwise (e.g. research was done without any assistance or advice from advisor).

Your abstract should be 300 words or less. We recommend that you create your abstract using a word processor or plain text editor and then paste it into the appropriate field in the abstract submission program. Alternatively, you can type the abstract directly into the text box of the abstract submission program, where you can insert special characters if needed. Specific formatting instructions will be included on the abstract submission website. We have updated our submission categories, including adding a new one on Anatomy and Physiology. Once the abstract submission program opens, you can check out our revised subject categories. Please tell your colleagues about these changes.

You may nominate your research for one or more appropriate awards sponsored by our Association and affiliates. **PLEASE READ THE INSTRUCTIONS AND DESCRIPTIONS OF EACH AWARD CAREFULLY.** Individuals not meeting the qualifications of an award or not following the nomination process may be disqualified. Furthermore, nominating yourself for awards for which you do not meet the qualifications places a lot of extra work on ASB volunteers.

Preliminary Presentation Instructions

* **Oral presentations** are allotted 15 minutes (12 for talk, 3 for questions) and slides must be in PowerPoint format on a USB memory drive.

* **Posters** should fit into a 46" x 46" space and will be displayed for an entire day (Friday or Saturday). Poster presenters should be prepared to stand by their posters for a designated one hour period on either Friday or Saturday, am or pm.

Presenters will be notified of the day and time of their presentation in mid-March and will be scheduled according to topic preferences and date of abstract submission. If you must have a specific time or day for your presentation, please indicate so in the comment section of the abstract submission program.

If you have any questions please contact the Program Chair, Dr. Howard Neufeld at: neufeldhs@appstate.edu; tel: 828-262-2683.

Plenary Speaker

Dr. Reed Noss

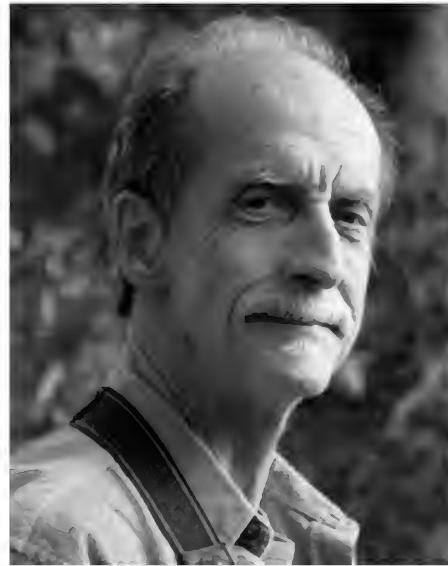
Professor and Pegasus Professor
University of Central Florida, Orlando, Florida

Research Area(s): Conservation planning, vertebrate ecology, vegetation science, disturbance ecology, climate change, adaptive management.

BACKGROUND

Reed Noss is Provost's Distinguished Research Professor, Pegasus Professor, and Davis-Shine Professor of Conservation Biology at the University of Central Florida and President of the Florida Institute for Conservation Science. He has a B.S. in Education from the University of Dayton, an M.S. in Ecology from the University of Tennessee, and a Ph.D. in Wildlife Ecology from the University of Florida. He has served as Editor-in-Chief of Conservation Biology (1993-1997), President of the Society for Conservation Biology (1999-2001), and President of the North American Section of the Society (2006-2008). He is an elected Fellow of the American Association for the Advancement of Science and has served on many boards and advisory panels, including the Board of Governors of the Society for Conservation Biology, the Board of Trustees of the Florida Chapter of The Nature Conservancy, and Florida's Acquisition and Restoration Council. He recently served as Vice-Chair of a Federal Advisory Committee for the U.S. Climate Change Science Program.

Professor Noss has more than 300 publications and is recognized as one of the 500 most highly cited authors in all fields worldwide. He has published seven books, the most recent being *Forgotten Grasslands of the South: Natural History and Conservation* (2013, Island Press). He is currently writing books on the fire ecology of Florida and the lower Southeastern Coastal Plain (University Press of Florida) and on natural disturbance as a primary factor that structures ecosystems (Island Press).



Reprinted from the UCF Biology website with the permission of Reed Noss.

Patrons of ASB

Associated Microscope, Inc.
(800-476-3893) Elon, NC
www.associatedmicroscope.com

BDY Environmental
(615-460-9797) Nashville, TN
www.bdy-inc.com

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(407-677-1882) Winter Park, FL
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Carolina Biological Supply Company
(800-334-5551) Burlington, NC
www.carolina.com

Dwayne Wise, PhD
(662-325-7579) Starkville, MS
daw1@ra.msstate.edu

Martin Microscope Company
(864-242-3424) Easley, SC
www.martinnmicroope.com

Affiliate Organizations Meeting with ASB in 2016

**Beta Beta Beta ($\beta \beta \beta$)
Southeastern District I**
Dr. Lee Sutton
Department of Biology
S119 Howell Science Complex
East Carolina University
Greenville, North Carolina 27858
Phone: 252-328-5745;
Fax: 252-328-4178
Email: suttonle@ecu.edu

**Beta Beta Beta ($\beta \beta \beta$)
Southeastern District II**
Dr. Christi Magrath
Dept. of Biological & Environmental
Science
Troy University
Troy, AL 36082
Tel: 334-670-3622
Email: cmagrath@troy.edu

**Botanical Society of America
Southeastern Section**
Dr. Emily Gillespie
Department of Biological Sciences
Marshall University
Huntington, WV 25755
Phone: 304-696-6467
Email: gillespiee@marshall.edu

**Ecological Society of America
Southeastern Chapter**
Dr. David Vandermast
Department of Biology
Elon University
Elon, NC 27244
Phone: 336-278-6171
Email: dvandermast@elon.edu

Society of Herbarium Curators
Andrea Weeks, President
Associate Professor and Director,
Ted R. Bradley Herbarium
George Mason University
Department of Biology
Fairfax, VA 22030
Phone: 703-993-3488;
Fax: 703-993-1046
Email: aweeks3@gmu.edu

**Southern Appalachian Botanical
Society**
Dr. Katherine Mathews
Associate Professor
Director of WCU Herbarium
Department of Biology
Western Carolina University
Cullowhee, NC 28723
Phone: 828-227-3659
Email: kmathews@email.wcu.edu



Please donate to the Silent Auction!!

The silent auction was a huge success the past two years in Spartanburg and Chattanooga. With YOUR HELP, we raised over \$8,500 for the Student Travel Fund in the past two years. This fund was established in 2006 to help defer travel cost for Graduate Student members presenting papers or posters during the ASB Annual Meeting. Since the fund was created, many students have benefited from these travel grants.

In order to surpass the amount we raised in Spartanburg and Chattanooga, we need Your Help again this year in Concord, NC, the site of the Annual ASB Meeting, March 31-April 3, 2016. The donated items can be books, to handcrafts, to memorabilia, to nature photography, to t-shirts or anything else you think appropriate. Some examples of the recent bestselling items are gift baskets, gift cards, nature books, jewelry, wine or any adult beverage and unique gifts.

- If you have an item you would like to donate to the Silent Auction, please contact Patricia Cox at pcox@utk.edu so we can add your item to our list.
- If you are unable to attend, please mail (via US Postal Service) your item to Patricia B. Cox before Friday March 25th at:

**Patricia B. Cox
3601 Garden Dr.
Knoxville, TN 37918**

- If you are attending the meeting, please bring your item to the Silent Auction Area in the Exhibit Hall before 10:00 AM on Friday, April 1 and one of the committee members will be available to receive it.

We want to thank you in advance for participating in this worthwhile event. If you have any questions, please feel free to contact one of the Committee Members below:

Patricia Cox -- pcox@utk.edu
Kim Marie Tolson -- tolson@ulm.edu
Pat Parr -- pdptn@aol.com
Eloise Carter -- ecarter@learnlink.emory.edu
Bonnie Kelley -- bonnie.kelley@uncp.edu
Diane Nelson -- janddnelson@yahoo.com



Silent Auction

Yes, I would like to contribute to the Silent Auction to help with student travel to the Annual Meeting.
(100% of all proceeds to benefit student travel).

Examples of Previous Submitted Items

Dissection Set
Corporate Gift Certificates
Frog Model
Dinner for Two
Two Nights Hotel Accommodations
Books
Charts
Wine Gift Basket
Educational Charts
Microscope
Books

Description of item(s) to be donated:

Please check appropriate option:

- Please contact me at the convention to pick up donation.
 I will mail donation to Patricia B. Cox, 3601 Garden Drive, Knoxville, TN 37918; 865-632-3609; pcox@utk.edu.

| | | |
|-----------|------|-------|
| Signature | Date | phone |
|-----------|------|-------|

| | |
|-------|--------|
| Title | e-mail |
|-------|--------|

Return Silent Auction form Patricia B. Cox, 3601 Garden Drive, Knoxville, TN 37918;
865-632-3609; pcox@utk.edu.

Workshop Form

2016 Association of Southeastern Biologists
March 31-April 3, 2016, Concord, North Carolina

Workshop Description: All commercial workshops will be conducted during the meeting on a first-come first-served basis. Classroom style seating will be provided at no additional charge to the presenter. Each classroom will be set for a minimum of 50 participants. A screen will be provided for each room. **LCD projectors and laptops will not be provided. One workshop per application please.**

Company/Organization_____

(Please list company name as you wish it to appear on printed materials)

Presenter _____ Email _____

Address: _____

Contact Address: _____

Telephone: _____ Fax: _____

Web site: _____

Workshop Title: _____

50-Word Workshop Description: _____

(Description will appear in Final Program of *Southeastern Biology*)

Please indicate which time slot you prefer below:

Pre-Conference Workshop: Thurs., 4pm-5:30pm _____

Fri., 8:30am-10am _____ Fri., 10:30am-12noon _____ Fri., 1:30pm-3pm _____

Fri., 3:30pm-5pm _____ Sat., 8:30am-10am _____

Deadline for workshop submission is 31 October 2015

Hold Harmless Clause

The workshop presenter assumes all responsibility and liability for losses, damages and claims arising out of injury to the presenter's display, equipment and other property brought upon the premises of the convention facilities and shall indemnify and hold harmless the association agents, servants and employees as well as the ASB organization from any losses, damages and claims.

Upon acceptance by ASB, this signed application and Workshop Contract form becomes the contract for the 2015 ASB Annual Convention. Workshop presenter will be notified of their acceptance by letter no later than 15 Dec 2015.

Signature

Date

Return form by **October 30, 2015** to: Joey Shaw, Dept. of Biological and Environmental Sciences, University of Tennessee, Chattanooga, TN 37403; (423) 425-4344; joey-shaw@tuc.edu. 

Industry Partners Form

2016 Association of Southeastern Biologists
March 31-April 3, 2016, Concord, North Carolina

Yes I Would Like to Partner with ASB and Participate
In the Industry Partners Program!!
Send no money now, please complete form and return to address shown below

Company/Organization _____

(Please list company name as you wish it to appear on printed materials)

Representative: _____ Email: _____

Address: _____

City, State, Zip: _____

Telephone: _____ Fax: _____

*Special Recognition at the Friday Night Social, Saturday Night Awards Banquet, signage at the Convention Center and a listing in Final Program of *Southeastern Biology*!

| Qty | Item | Amount |
|-------|--|-------------------------|
| _____ | Thurs. Night Cash Bar (4 Opportunities) | \$500/opportunity |
| _____ | Coffee Breaks (8 Opportunities) | \$500/opportunity |
| _____ | Cyber Café & Marketing Survey | \$750/opportunity |
| _____ | Friday. Night Social (4 Opportunities) | \$900/opportunity |
| _____ | Saturday Night Banquet Cash Bar | \$850 |
| _____ | Yes, I wish to present a workshop | See Workshop Form |
| _____ | 24-Hour Exhibit Hall Security | \$1,000 |
| _____ | ASB Executive Committee Breakfast | \$350 |
| _____ | Yes, I would like to Donate an Item to the Silent Auction to help with Student Travel | See Silent Auction Form |
| _____ | ASB Web Site Hot Link to Your Company (12 months) | \$375 |
| _____ | Yes, I would like an AD in all 4 2016 issues of <i>Southeastern Biology</i> (circle choice) | See Advertising Form |
| _____ | $\frac{1}{4}$ page=\$200, $\frac{1}{2}$ page=\$325, full page=\$425 | |
| _____ | AD in Final On-Site Program (circle choice) | See Advertising Form |
| _____ | $\frac{1}{4}$ page=\$175, $\frac{1}{2}$ page=\$225, full page=\$275 | |

Signature _____

Date _____

Title _____

e-mail _____

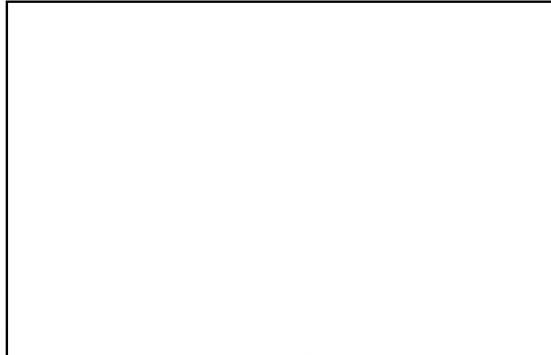
Return Form with Check or Credit Card Information by **January 1, 2016** to: Joey Shaw, Dept. of Biological and Environmental Sciences, University of Tennessee, Chattanooga, TN 37403; (423) 425-4344; joey-shaw@tuc.edu 



**Advertising
with the
Association of Southeastern Biologists**

Reach Your Target Audience and
Promote your Products and Services Throughout the Year!!
Advertise in Southeastern Biology.

Advertise in Southeastern Biology and reach about 1,000 members from 42 states and 13 countries. ASB publishes 4 issues of Southeastern Biology per year and an On-Site Program for the Annual Meeting. Choose one or both opportunities to increase your marketing exposure. Promote your products and services throughout the year!



½ Page 4" (↓) x 5"



Full Page 8" (↓) X 5"

**Advertising with the Association of Southeastern Biologists
(cont.)**

Yes, I would like an AD in all 4 (Full Color)
4 issues of Southeastern Biology, (circle choice)

½ page = \$250, full page = \$500

AD in Final On-Site Program (circle choice) (Black & White Only)

½ page = \$250, full page = \$500

*All must be submitted in pdf.

Return Form with Check or Credit Card Information to Edgar Lickey,
Department of Biology, 402 East College Street, Box 125, Bridgewater
College, Bridgewater, VA 22811, elickey@bridgewater.edu. ~~or~~

**BEQUESTS TO THE
ASSOCIATION OF SOUTHEASTERN BIOLOGISTS**

If you would like to help assure ASB's future through a provision in your will, this general form of bequest is suggested:

I give, devise and bequeath to the Association of Southeastern Biologists, business office located in Bridgewater, VA, the sum of \$_____ and/or (specifically described property).

If property, please describe.

We welcome any inquiries you may have. In cases in which you have specific wishes about the disposition of your bequest, we suggest you discuss such provisions with your attorney.

SPECIAL REMINDERS FROM THE JOURNAL EDITOR

ASB BANQUET ATTENDANCE

Please keep in mind that recipients of ASB awards must be present at the annual ASB banquet to receive the award. Therefore, all applicants for ASB awards must attend the banquet to insure the presence of the winners.

MEMBERSHIP AND REGISTRATION UPDATE

All applicants for ASB research awards must be ASB members in good standing, and be duly registered for the annual meeting. If necessary, check with the Treasurer for verification before you apply.

Please make sure your membership status is up-to-date amply before the deadline for abstract submission and for annual meeting registration. Please be aware that mailing a check or money order for membership renewal to the treasurer and then trying to register online or by mail for the annual meeting on the same day does not work. Moreover, trying to pay for membership renewal online in tandem with registering for the annual meeting online does not work well either.

EXTRA ABSTRACT SUBMISSION

Besides sending abstracts of papers and posters to the Program Committee by February 7, 2016, anyone wishing to be considered for an award must send an abstract to the respective award committee chairperson in order to be considered. An abstract must be sent to the chairperson by February 7, 2016.

Preliminary Presentation Instructions

- **Oral presentations** are allotted 15 minutes (12 for talk, 3 for questions) and slides must be in PowerPoint format on a USB memory drive.
- **Posters** should fit into a 46" x 46" space and will be displayed for an entire day (Thursday or Friday). Poster presenters should be prepared to stand by their posters for a designated one hour period.

Presenters will be notified of the day and time of their presentation in mid-March and will be scheduled according to topic preferences and date of abstract submission. If you must have a specific time or day for your presentation, please indicate so in the comment section of the abstract submission program.

If you have any questions, please contact the Program Chair, **Dr. Howard Neufeld** at: neufeldhs@appstate.edu; tel: 828-262-2683. ☎

**Nomination for ASB Officers and Executive
Committee Positions**

DEADLINE: 31 OCTOBER 2015

To members of the Nominating Committee: I wish to suggest that you consider the following ASB member(s) in selecting nominees for officers and executive committee positions. (***Please include the institutional address of each nominee.***)

VICE PRESIDENT _____

PRESIDENT-ELECT _____

SECRETARY _____

EXECUTIVE COMMITTEE (*two will be elected for three-year terms*)

MAIL TO: Dr. Zack Murrell, Department of Biology, Appalachian State University, Boone, NC 28608; (828) 262-2674; murrellze@appstate.edu

NAME & ADDRESS OF NOMINATOR _____

**SUPPORT AWARDS FOR
GRADUATE STUDENT MEMBERS OF ASB
DEADLINE FOR RECEIPT: 12 February 2016**

Limited funds are available to partially defray the expenses of graduate students attending the Annual Meeting. The awards are for lodging and meals only, including the ASB Banquet. Departments are urged to provide transportation for their graduate students. Recipients must be members of ASB. See ASB web site for membership application or renewal forms. The guidelines for application are as follows:

- (a) The recipient is a current member of ASB.
- (b) The recipient must present at the Annual Meeting and must include a separate copy of the abstract of the paper or poster to be presented along with the application. Failure to present will result in forfeiture of the award.
- (c) The recipient must be currently enrolled as a graduate student in the department where he/she conducted this research.
- (d) Student travel awards are granted on a competitive basis. Applications must contain:
 - * An itemized budget, including expected costs for lodging and meals, with a list of other sources of financial support for this meeting, including institutional aid and shared lodging.
 - * A brief history (a paragraph) of your education to date: indicate how many years you have been in graduate school and the expected date of completion of work for your degree, your major field of study and research, publications, including those in press and in preparation, degree sought, name of major professor and any other pertinent details.
 - * A copy of the abstract to the paper or poster that will be presented at the Annual Meeting.
 - * Your source(s) of support while in graduate school: e.g. NSF, NIH, USDA, Teaching Asst., Research Asst., etc.
 - * A letter of recommendation for an ASB support award from your faculty research advisor. This letter should comment on the work being presented and indicate the financial need of the student presenter. It should also indicate whether any departmental or other funding is available to the student.
- (e) Email the application as a single PDF, including the supporting letter to: Dr. Claudia L. Jolls, jollsc@ecu.edu.
- (f) Applicants will be notified of the decision of the Committee as soon as is practical. Recipients of the award will pick up their checks at the ASB table at the annual meeting.

The advertisement features the eScience Labs logo at the top left, followed by a large image of various science lab equipment like flasks, test tubes, and a microscope. A central banner with a dark background and white text reads "Comprehensive Lab Kits for Online Learners".

eScience Labs LLC provides complete and comprehensive hands-on science kits to support online and traditional courses in need of a laboratory solution. These are the same experiments you would find in a traditional academic lab, but designed and scaled to be performed by students anytime, anywhere. Written by PhD level educators and scientists, our labs compliment any teaching style or curriculum.

eScience Labs kits include:

- Hands-on Materials
- Full Color Lab Manual
- Safety equipment
- Learning Management System Integration
- Virtual Learning Activities

Offering solutions for:

- Biology
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- Anatomy & Physiology
- Microbiology
- Physics
- Physical Science
- Environmental Science
- Custom Kits



888-ESL-KITS
info@esciencelabs.com
www.esciencekits.com

GUIDELINES FOR POSTER PRESENTATIONS

Poster sessions have been incorporated as a regular means of scientific presentation at the annual ASB meetings. This type of presentation provides a more informal environment that encourages a direct interchange of ideas and discussion between presenter and audience. Poster presentations are open to all ASB members. Adherence to the following guidelines helps ensure the effectiveness of the poster presentation and consideration for the award.

- (1) Display should fit on a 46" h x 46" w board suitable for thumbtacks, pushpins, or Velcro.
- (2) Poster must be displayed from 10 a.m. Thursday through 5 p.m. Friday. Authors will be required to be present at specified times during the Annual Meeting.
- (3) Poster should be carefully planned to maximize clarity and simplicity in conveying information.
- (4) Poster should have a heading, including a title, author, and author's institution(s). This heading should be placed at the top in letters no less than **3 cm** high.
- (5) The body of the poster, including text, figure legends, and table captions, should be in type no smaller than **18 pt (3-4 mm)** and *must* be legible from a distance of about 1-2 meters.
- (6) The body should be self-explanatory and should include figures, tables, graphs, maps, or photographs displayed in a well organized, coherent, and easy-to-follow sequence from top to bottom. Each illustration should contain a caption. *Do not overcrowd the display.* Significance will be one of the criteria looked for in judging the posters.
- (7) A limited degree of text may be included, but care should be taken not to overwhelm the audience.
- (8) A large, abbreviated version of the abstract should be presented at the top of the poster, but below the heading. A clear listing of specific conclusions should appear at the bottom or end of the presentation. An abstract must also be submitted to the award committee chair.

Further inquiries may be directed to one of the **Chairs of the ASB Poster Award Committee**: Dr. Sharyse Henderson, Georgia Highlands College, Cartersville, GA; shenders@highlands.edu or Dr. Rob Hopkins, University Rio Grande, Rio Grande, OH; rhopkins@rio.edu.

RESEARCH AWARDS

SPECIAL NOTICE: Please read carefully the description of requirements for the ASB award for which you apply. All applicants for ASB awards must be ASB members in good standing, and must be duly registered for the annual meeting. If necessary, check with the Treasurer for verification before you apply. Note especially that recipients of ASB awards must be present at the annual ASB banquet to receive the award.

ASB SENIOR RESEARCH AWARD (\$1000)

Presented to a senior ASB member for an especially meritorious manuscript presented orally by the senior author at the annual meeting of ASB (or co-author under exceptional circumstances if the senior author cannot attend). Students are not eligible for this award. The award applicant must be senior author on both the manuscript and oral presentation, and the presenter must be a member of ASB. In order to qualify for this award, sponsored by ASB, the senior author (or a representative) must have presented work orally within a two-year period prior to the award submission deadline of 7 February 2016. The manuscript must either have been submitted for publication or be ready for submission and carry the format of the journal to which it will be (or has been) submitted. Author(s) may submit their papers electronically by emailing them to the committee chair (pdf preferred). Include a short (1 page maximum) biography of the award applicant. If sent by hardcopy, submit three copies of the manuscript and biographical sketch. Manuscripts received by 1 February 2016 will compete for the 2016 Senior Research Award. Manuscripts received after the deadline will be returned to the senior author who can then re-submit the following year. However, such manuscripts cannot have been published prior to the last annual meeting. Judges will use a standard evaluation form that includes the following criteria: significance of ideas, soundness of hypotheses, originality (creativity), quality of methodology, validity of results, soundness of conclusions, clarity, completeness, organization, and contribution to the field. Review papers, if submitted, should contain new information, such as novel syntheses from existing data, or an original contribution that extends our knowledge of the field, rather than just a review of existing literature. At the discretion of the Senior Research Award Committee, the award may be withheld or it may be split in case of a tie. *The recipient of the award must be present at the annual ASB banquet to receive the award.*

Committee Chair: Dr. Michael Dorcas, Davidson College, Davidson, NC; midorc@davidson.edu.

ASB STUDENT RESEARCH AWARD (\$1000)

Presented to a student ASB member for an especially meritorious manuscript presented orally by the author(s) at the annual meeting. To be eligible for the Student Research Award (sponsored by ASB Patron Member Martin Microscope Company), the recipient must be the senior author on the manuscript, and must be a graduate or undergraduate student at the time of presentation. To qualify for the award, the author(s) must submit an **abstract** to

the current Student Research Award Committee Chair (posted on the website), due the same date as abstract submission to the program committee for presentations or posters within a two-year period prior to the deadline of 7 February 2016. **Complete applications for the competition must be received by the Student Research Award Committee Chair by February 2016.** Complete applications include (1) Three copies of a journal-ready manuscript or publication. Papers may be in press, or published after the previous ASB annual meeting, but not prior; (2) abstract in same format as submitted for the ASB call for papers, including author names, titles, and contact information; (3) biographical sketches of each author. These materials may also (in addition to hardcopy) be sent by email to the committee chair. Judges will evaluate the manuscripts based on significance of ideas, soundness of hypotheses, originality, methodology, validity of results, soundness of conclusions, clarity, completeness, organization, and contribution to the field. At the discretion of the Student Research Award Committee, the award may be withheld or it may be split in the case of a tie. **Only members of the ASB are eligible and the recipient of the award must be present at the Annual ASB Awards Banquet to receive the award.**

Committee Chair: Dr. Shawn Krosnick, Tennessee Tech. University, Cookeville, TN; skrosnick@tnstate.edu.

ASB STUDENT ORAL PRESENTATION AWARDS (\$300)

Sponsored by ASB, the award is presented for an especially meritorious student oral presentation of research results to four students at the annual meeting. Students are recognized in one of four categories designed to reflect the breadth of biological disciplines at ASB that are not currently represented through affiliate awards. At abstract submission by February 2016, students may choose no more than one category from (1) Cell and Molecular Biology, (2) Aquatic Biology, (3) Animal Biology, and (4) Microbiology in which to be considered. One award of \$300 will be made in each of the four categories. In order to qualify for this award, the senior author must request consideration for the award on the abstract submission form, submit one copy of the title and abstract to the ASB Program Chair by 7 February 2016, and submit a second copy by the same date to the Microbiology Award Committee Chair. Only members of ASB are eligible and the recipient of the award must be present at the Annual ASB Banquet to receive the award (go to <http://www.sebiologists.org> for membership application or renewal form).

Committee Chair: Dr. Shawn Krosnick, Tennessee Tech. University, Cookeville, TN; skrosnick@tnstate.edu.

ASB STUDENT POSTER PRESENTATION AWARD (\$300)

Sponsored by ASB, the award is presented for an especially meritorious student poster presentation of research results to four students at the annual meeting. Students are recognized in one of four categories designed to reflect the breadth of biological disciplines at ASB that are not currently represented through affiliate awards. At abstract submission by February 2016, students may

choose no more than one category from (1) Cell and Molecular Biology, (2) Aquatic Biology, (3) Animal Biology, and (4) Microbiology in which to be considered. One award of \$300 will be made in each of the four categories. The purpose of the award is to stimulate greater student participation at the Annual Meeting. To qualify for this award, the senior author **must be a graduate or undergraduate student at the time of presentation, must be a member of ASB, must submit an abstract by the 7 February 2016 deadline, and must be present at the Annual ASB Awards Banquet.**

Committee Chair: Dr. Sharyse Henderson, Georgia Highlands College, Cartersville, GA; shenders@highlands.edu.

EUGENE P. ODUM AWARD (\$500)

The Eugene P. Odum Award is sponsored by the Southeastern Chapter of ESA. This Award of \$500 is given for the best oral presentation on ecological research given by a student at the Association of Southeastern Biologists [ASB] Annual Meeting. Undergraduate and graduate students are eligible. The research presented should be primarily of the student's design and should represent a culmination of their work. Presentations describing preliminary work or data will not be considered for the Odum Award. Likewise, the abstract must be complete with results and discussion comprising a significant portion of the abstract. Students may not compete for the Award in successive years on the same project, and may not compete simultaneously for the Odum and Quarterman-Keever Awards in the same year.

(1) A student must indicate his or her interest by clicking the Odum Award radio button on the abstract submission website. To be considered, the student must submit the abstract by the deadline announced in the Call for Papers to both the (2) ASB Meeting Program Chair and directly to the (3) Chair of the Odum Award Committee, Dr. Christopher Adams, Biology Program, CP02191, Berea College, Berea, KY 40404; 859-985-3348; adamsch@berea.edu. Send e-mail with the abstract attached. Enter ODUM AWARD (your last name) in the subject line. **Submissions failing to meet these three criteria will not be considered.**

Committee Chair: Dr. Christopher Adams, Biology Program, CP02191, Berea College, Berea, KY 40404; 859-985-3348; adamsch@berea.edu.

ELSIE QUARTERMAN-CATHERINE KEEVER AWARD (\$500)

Given by the Southeastern Chapter of the Ecological Society of America for the best ecological poster presented by a student. This award was presented for the first time in 2005. Undergraduate and graduate students are eligible. The student must be the sole or senior author. The poster must deal with a clearly ecological topic and should represent substantially completed work. It should be presented in a regular contributed poster session. Students may not compete for this award in successive years with the same project. Students may not compete simultaneously for the Elsie Quarterman-Catherine Keever Award and the Odum Award in the same year. One copy of the title and abstract should be sent to the ASB Program Chair by the "Call for Papers" deadline of 1 February 2015 and a

second copy must be sent via email by the same date to the Quarterman-Keever Committee Chair.

Committee Chair: Dr. David Vandermast, Department of Biology, Elon University, 2625 Campus Box, Elon, NC 27244; 336-278-6171; dvandermast@elon.edu.

THE NORTH CAROLINA BOTANICAL GARDEN AWARD (\$300)

Given by NCBG (through the Southeastern Section of the Botanical Society of America and the Southern Appalachian Botanical Society). This is awarded for a paper presented at the annual ASB meetings that best advances our understanding of the biology and conservation of the southeastern plants and/or their ecosystems, and thus contributes to the mission of the North Carolina Botanical Garden. Of special interest to the Garden are the rare plant species of the Southeast: why they are rare; how they interact with plants, animals, and their environment; and what can be done to ensure their survival. The paper may deal with a broad area including systematics, ecology and conservation. All individuals who are eligible to present at the ASB meetings are eligible for this award. They may be students, faculty or others.

Committee Chair: Dr. John Randall, Department of Biology, University of North Carolina, Greensboro, NC 27412; 919-962-0522; fax 919-962-3531; jrandall@email.unc.edu.

BOTANICAL SOCIETY OF AMERICA SOUTHEASTERN SECTION STUDENT AWARDS

Two awards: A \$300 cash prize for the best paper and a \$300 cash prize for the best poster in plant science presented at the annual meeting of ASB. In addition, each winner will receive funds towards travel to the annual BSA meeting as well as one year's membership in BSA. These are awards for papers and posters in botany in its broadest sense including fungi and algae as well as plants.

Who is eligible: Undergraduate and graduate students are eligible. The student must be the sole or senior author of the paper or poster. Students may only apply for one or the other award, but not both.

How to apply: To be included in the competition, applicants should e-mail their abstract to the Botanical Society of America Southeastern Section Student Award committee chair by the abstract deadline of 1 February 2015. The winner will be announced at the ASB Banquet.

Committee Chair: Dr. Emily Gillespie, Department of Biological Sciences, Marshall University, Huntington, WV 25755; 304-696-6467; gillespiee@marshall.edu.

Southern Appalachian Botanical Society Outstanding Student Paper and Poster Awards

The society offers two awards for students: the SABS Outstanding Student Paper Award, and the SABS Outstanding Student Poster Award. A nominee must be a current undergraduate or graduate student in good standing, and must be a current member of SABS. A student will nominate his/her paper or poster presentation when registering for the annual ASB meeting and submitting the abstract. Each award includes an honorarium of \$150.00, and the winners will be announced at the ASB Friday night banquet.

Earl Core Student Award

The Core Student Award was established by the Society Council to provide financial assistance in support of student research projects in plant taxonomy, systematics and ecology.

Criteria and Procedures

1. An applicant for a Core Student Award and his/her research advisor must be members of the Southern Appalachian Botanical Society (SABS).
2. Support in the form of a Core Student Award will be presented to an individual student for a given research project only once; applications for additional support for the same project will not be considered.
3. The research advisor will attest to the applicant's student status and validity of the research proposal.
4. The annual award period will run from May 1 of the award year through April 30 of the next year.
5. An individual award may not exceed \$500.
6. Award applications for consideration each year must be received by the committee chair no later than February 15 of the award year. Download the application cover sheet on SABS website. Award recipients will be announced in April at the annual meeting of SABS/ASB.
7. Awards will be designated on a competitive basis with the applications reviewed and awardee(s) selected by the Core Student Award Committee. Should a member of the committee be the research advisor of an applicant, he/she will be excused as a reviewer for that entire group of applications and replaced by the society president.
8. Recipients of a Core Student Award are expected to submit a summary for publication in *Chinquapin* (our newsletter). Though not required, recipients are encouraged to submit the results of their research to *Castanea* for possible publication. In any case, oral presentation(s) and/or publication(s) resulting from financial support should appropriately acknowledge SABS.

Elizabeth Ann Bartholomew Award**PURPOSE**

Elizabeth Ann Bartholomew (1912–1985) served as the Secretary of the Southern Appalachian Botanical Club (now Society) from 1946 until 1981. Her life was devoted to plants, and she transferred her interest in plants and nature to students of all ages and walks of life. The Southern Appalachian Botanical Society annually presents the Elizabeth Ann Bartholomew Award in memory of her untiring service to the public, to plant systematics, and to this organization. This award is presented to individuals who have also distinguished themselves in professional and public service that advances our knowledge and appreciation of the world of plants and their scientific, cultural, and aesthetic values, and/or in exceptional service to the Society.

**TO NOMINATE A DESERVING COLLEAGUE FOR THE 2015
BARTHOLOMEW AWARD**

Please go to the SABS website [<http://www.sabs.appstate.edu/>] to download and fill out a copy of the application form and mail it to the chair of the Bartholomew award committee by **February 1, 2015**. SABS members may nominate more than one person.

Please note: The Elizabeth Ann Bartholomew Award will not be presented posthumously or jointly. Current members of either the Executive Council or the Bartholomew Award Committee are not eligible.

Nominations must include a list of names and addresses (including e-mail) of at least five colleagues whom you believe would support your nomination with an enthusiastic letter or recommendation if contacted by the award committee.

Please send applications to:

Charlie Williams, 6720 Wheeler Dr., Charlotte, NC 28211. Questions may be directed to him at: 704-366-5969, bartholomewaward2015@gmail.com.

For the award requirements of other ASB affiliates, visit their respective web site:

American Society of Ichthyologists and Herpetologists—<http://www.asih.org/>
Southeastern Microscopy Society—<http://www.semicroscopy.org>
Southern Society of Parasitologists—<http://asp.unl.edu>

SPECIAL AWARDS**THE ROBERT H. MARTIN PROFESSIONAL EXCELLENCE AWARD**

Sponsored by Martin Microscope Company, this ASB award is established to honor the memory of Robert H. Martin, Sr., founder of Martin Microscope Company. ASB members are invited to nominate outstanding ASB scientists,

educators, and professionals to receive the Robert H. Martin Professional Excellence Award, established in 2008 and sponsored by **Martin Microscope Company**. In keeping with the example of the award namesake, nominees must be ASB members who have devoted a major portion of their career to energetic, creative commitment and skillful, effective service to biology education, biology research, and/or the biology profession. This award is only presented when the award committee identifies an exceptional, qualified nominee. Recipients are honored at the Awards Banquet during the ASB Annual Meeting and will receive a plaque and a cash award. The amount of the cash award is to be determined by the Robert H. Martin Award Fund Committee. Nominations must include a detailed written description of the candidate's qualifications. Nominations may be submitted at any time.

Please send nominations to: **Dr. Edgar Lickey**, Department of Biology, Bridgewater College, Bridgewater, VA 22812; 502-828-5426; elickey@bridgewater.edu.

The John Herr Lifetime Achievement Award

This prestigious award was established by the Association of Southeastern Biologists in 2007 to recognize unusually significant contributions by its members to the life of the Association and to biology in the southeastern US. The award was first presented to its namesake, Distinguished Professor Emeritus John Herr (Department of Biological Sciences, University of South Carolina), by President Kim Marie Tolson in Columbia, South Carolina on April 20, 2007, on the occasion of the 68th Annual Meeting of the Association. This award is to be presented at an Annual Meeting of the Association to no more than one recipient, but there is no requirement that it be given every year.

A nominator wishing to submit a candidate for this award to the Association must prepare a nomination package on behalf of the candidate, following the guidelines below. The package is to be conveyed to the President of the Association by June 15 to be in competition for the award presented at the upcoming Annual Meeting. The President will appoint a committee consisting of three individuals, at least one of whom will be a Past President and the other two officers or former officers of the Association. That committee will consider all active packages and will report a nomination of a single award recipient (if any) to the President of the Association, who will present it to the interim Executive Committee (EC) meeting, held in September or October of each year. Upon a majority vote in favor of the nomination from the EC members present at such a meeting, the President will appoint an individual (typically the most recent Past President) to prepare a plaque and citation to be presented by the President to the recipient at the awards banquet during the upcoming Annual Meeting. Other nomination packages may be held over for consideration, for a maximum of two additional years, after which time unsuccessful packages will be returned to their nominators.

A recipient of this award must have contributed in ways that set her or him apart from other members of the Association. In particular, the recipient must have:

1. Demonstrated unusual and long-standing devotion to the Association through consistent efforts to improve and advance ASB, going beyond the standard duties of committee members and officers. The recipient must have demonstrated a willingness to serve the organization when asked for additional service.
2. Been a member in good standing of the Association for a minimum of ten years.
3. Served as an elected or appointed officer of the Association.
4. Contributed in a significant way to the Association's purpose of promoting the advancement of biology as a science in the southeastern US, through research, education, solution of biological problems, conservation, public awareness of biological issues, and/or public service.
5. Have other accomplishments indicative of unusual dedication and service to the Association.

ASB Meritorious Teaching Award 2016

Deadline for Nominations February 7, 2016

The Association of Southeastern Biologists Meritorious Teaching Award is one of the highest honors for excellence in teaching at the undergraduate and/or graduate level in biology in the U.S. Southeast. Since 1953, ASB has recognized one of its members for outstanding teaching most years at the ASB Annual Banquet, the closing event of each spring meeting. Carolina Biological Supply Company generously sponsors this \$1500 award. The Meritorious Teaching Award Committee seeks nominations from the ASB membership and selects the winner. The Meritorious Teaching Committee urges the membership to consider qualified candidates at their institutions or at other ASB associated institutions for nomination and to assume the responsibility of coordinating and submitting materials for candidates' nominations. Possible candidates may not nominate themselves.

Criteria for the Meritorious Teaching Award

1. The candidate has been an ASB member for at least 10 years.
2. The candidate has taught biology for at least ten years in any college or university represented in the association. There is no restriction on the size of the institution, nor must the institution have a graduate program.

Documentation for the Meritorious Teaching Award

The nominator may be a current student, a former student, or a colleague. The nominator should assemble a portfolio which includes:

1. A letter of nomination of a candidate with the nominator's personal support of the nomination.
2. Several letters supporting the nomination of a candidate from colleagues, administrators, current and former students. The number of letters is not a priority; however, the documentation needs to be abundant and diverse. In

other words, the evidence you have provided should convincingly support your nominee.

3. Current *curriculum vitae*.

The purpose of documentation is to show the educational influence this candidate has made by virtue of his or her role as a biology professor. Letters should discuss activities of the candidate such as advising, mentoring, involving students in research, using innovative teaching methods, curriculum and/or course development, participation in study/travel/research programs, sponsoring science related groups such as Beta Beta Beta, innovative service to their institution, ASB, or the community, etc. Documentation by students or former students might include how the candidate influenced their development and contributed to their own achievements.

The nominator should send assembled materials electronically to Dr. Kim Marie Tolson, Chair Meritorious Teaching Committee, at tolson@ulm.edu. In the electronic mailing the nominator needs to send a cover letter noting the number and type of items in the attached portfolio, the name and contact information of the candidate and the nominator's contact information. The Chair of the Committee will acknowledge receipt of the materials. **In addition to the electronic materials**, the committee requires a signed hard copy of the letter of nomination and all supporting letters. The assembled hard copies should be sent to **Dr. Kim Marie Tolson, Department of Biology, University of Louisiana, Monroe, LA**. The hard copies will be a part of a file of materials presented to the winning candidate. These letters are usually the most meaningful part of the award to the winning candidate.

The deadline for submission of materials is February 7, 2016. The nominator is also responsible for making sure the candidate attends the ASB banquet. If you have any questions, please contact me at tolson@ulm.edu. Files received for any candidate will remain active for at least two additional years and may be updated. The award for 2013-2014 was not given due to a lack of nominations. Please take the initiative and nominate qualified candidates for this prestigious award. It really means a great deal to those who receive the award.

Dr. Kim Marie Tolson, Chair
ASB Meritorious Teaching Award Committee

ASB Lucrecia Herr Outstanding Biology Teacher Award (\$750)

ASB maintains an enrichment fund to sponsor long- and short-range objectives to advance biological education through teaching and research. The Enrichment Fund Board is chaired by Michael Dennis. As has been the custom for the past several meetings, ASB recognizes individuals for their achievements and dedication to biology education at the secondary school level. The awardee is invited to attend the annual meeting and be honored. The use of money from this fund shows appreciation for excellence in teaching at the secondary level, and to reach out to our colleagues in the teaching profession. Contributions to the fund can be made at the annual meeting or can be sent to the Treasurer of ASB whose address can be found in the inside front cover of this issue. *or*

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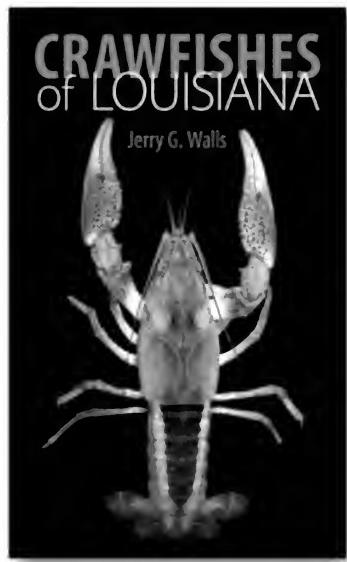
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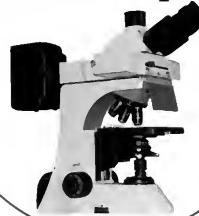
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